Form 3160-3
(August 1999)

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
UTU-01193

6. If Indian, Allottee or Tribe Name
TRIBAL SURFACE

7. If Unit or CA Agreement, Name and No.
UNIT #891008900A

1a. Type of Work: [X] DRILL [ ] REENTER

8. Lease Name and Well No.
NBU 921-14B

b. Type of Well: [ ] Oil Well [X] Gas Well [ ] Other [ ] Single Zone [X] Multiple Zone

9. API Well No.
43-047-39246

2. Name of Operator
KERR MCGEE OIL AND GAS ONSHORE LP

3A. Address	3b. Phone No. *(include area code)*	10. Field and Pool, or Exploratory
1368 SOUTH 1200 EAST VERNAL, UT 84078	**(435) 781-7024**	**NATURAL BUTTES**

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface **NW/NE 822'FNL, 1764'FEL** 626674 X 40.041078
At proposed prod. Zone 4433124 -109.515172

11. Sec., T., R., M., or Blk, and Survey or Area
SEC. 14, T9S, R21E

14. Distance in miles and direction from nearest town or post office*
29.6 +/- MILES FROM OURAY, UTAH

12. County or Parish	13. State
UINTAH	**UTAH**

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. unit line, if any)	16. No. of Acres in lease	17. Spacing Unit dedicated to this well
822'	**1920.00**	**40.00**

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. on file
REFER TO TOPO C	**10,030'**	**RLB0005239**

21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
4794'GL	**UPON APPROVAL**	**TO BE DETERMINED**

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office.
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized office.

25. Signature	Name *(Printed/Typed)*	Date
	SHEILA UPCHEGO	**4/18/2007**

Title
SENIOR LAND ADMIN SPECIALIST

Approved by *(Signature)*	Name *(Printed/Typed)*	Date
	BRADLEY G. HILL	**04-26-07**

Title: Office **ENVIRONMENTAL MANAGER**

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

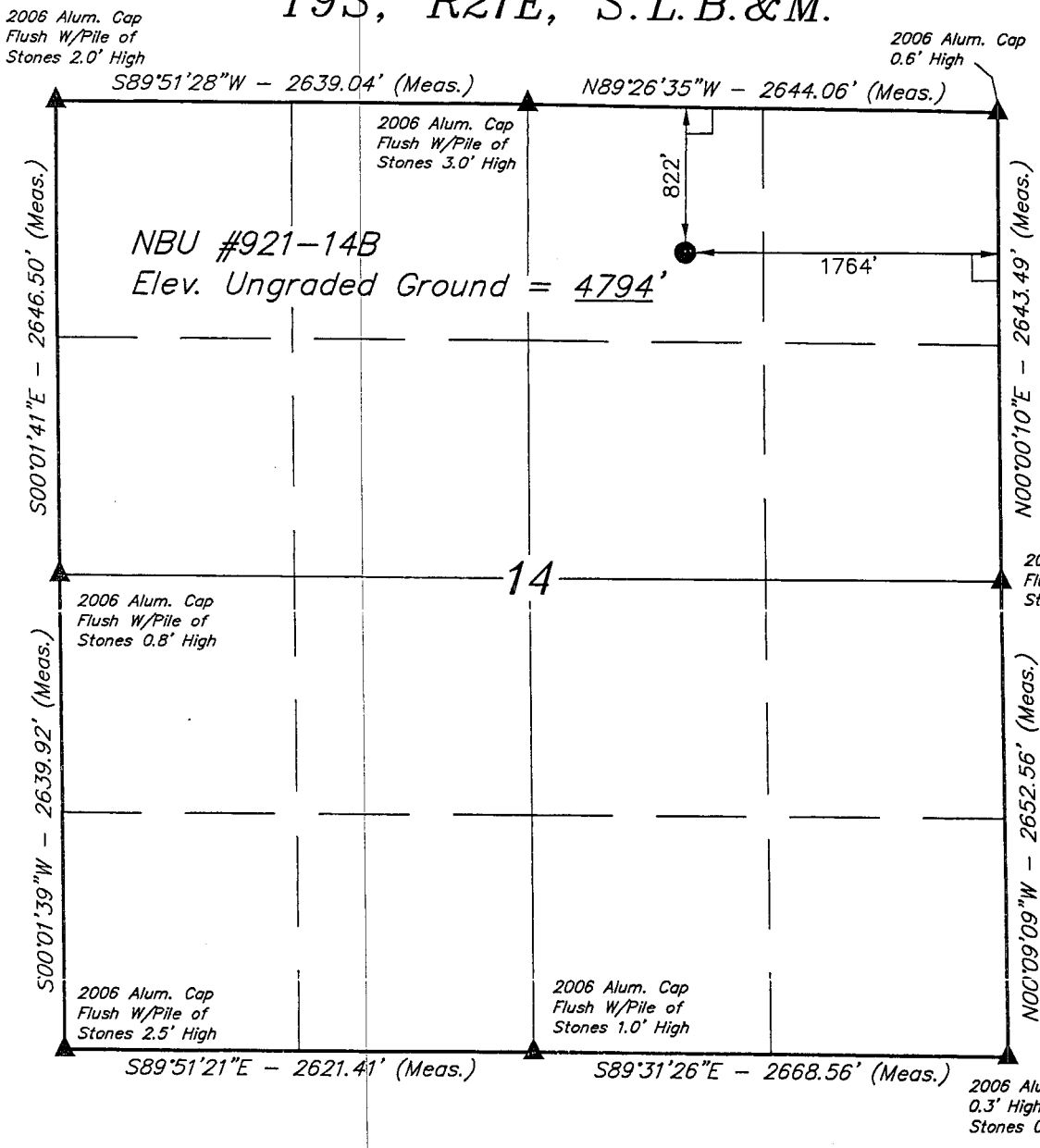
Title 18 U.S.C. Section 1001and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**(Instructions on reverse)*

Federal Approval of this Action is Necessary

RECEIVED
APR 2 3 2007
DIV. OF OIL, GAS & MINING

T9S, R21E, S.L.B.&M.



Kerr-McGee Oil & Gas Onshore LP

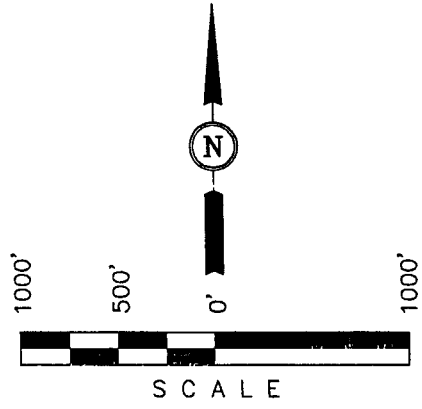
Well location, NBU #921-14B, located as shown in the NW 1/4 NE 1/4 of Section 14, T9S, R21E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

LEGEND:

- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- = SECTION CORNERS LOCATED.

(NAD 83)
LATITUDE = 40°02'27.90" (40.041083)
LONGITUDE = 109°30'57.20" (109.515889)
(NAD 27)
LATITUDE = 40°02'28.03" (40.041119)
LONGITUDE = 109°30'54.72" (109.515200)

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE: 1" = 1000'	DATE SURVEYED: 01-26-07	DATE DRAWN: 02-02-07
PARTY: L.K. J.M. C.H.	REFERENCES: G.L.O. PLAT	
WEATHER: COLD	FILE: Kerr-McGee Oil & Gas Onshore LP	

NBU 921-14B
NW/NE Sec. 14, T9S, R21E
UINTAH COUNTY, UTAH
UTU-01193

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. **Estimated Tops of Important Geologic Markers:**

Formation	Depth
Uinta	0- Surface
Green River	1731'
Top of Birds Nest Water	2044'
Mahogany	2413'
Wasatch	5071'
Mesaverde	7864'
MVU2	8815'
MVL1	9380'
TD	10,030'

2. **Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

Substance	Formation	Depth
	Green River	1731'
	Top of Birds Nest Water	2044'
	Mahogany	2413'
Gas	Wasatch	5071'
Gas	Mesaverde	7864'
Gas	MVU2	8815'
Gas	MVL1	9380'
Water	N/A	
Other Minerals	N/A	

3. **Pressure Control Equipment** (Schematic Attached)

Please see the Natural Buttes Unit Standard Operating Procedure (SOP).

4. **Proposed Casing & Cementing Program:**

Please see the Natural Buttes Unit SOP.

5. **Drilling Fluids Program:**

Please see the Natural Buttes Unit SOP.

6. **Evaluation Program:**

Please see the Natural Buttes Unit SOP.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 10,030' TD, approximately equals 6219 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 4012 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

Drilling is planned to commence immediately upon approval of this application.

9. **Variances:**

Please see Natural Buttes Unit SOP.

10. **Other Information:**

Please see Natural Buttes Unit SOP.

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	April 18, 2007	
WELL NAME	NBU 921-14B		TD	10,030' MD/TVD	
FIELD	Natural Buttes	COUNTY Uintah	STATE Utah	ELEVATION 4,792' GL	KB 4,807'
SURFACE LOCATION	NW/NE SEC. 14, T9S, R21E 822'FNL, 764'FEL				BHL Straight Hole
	Latitude: 40.041083	Longitude: 109.515889			
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: TRIBAL (SURF & MINERALS), BLM, UDOGM, Tri-County Health Dept				

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'	14"		
			12-1/4"	9-5/8", 32.3#, H-40, STC **For wells w/ surf csg set below 2200' app 10 jts of 36# J55 will be run on bottom	Air mist
Catch water sample, if possible, from 0 to 5,071'	Green River @	1,731'			
	Top of Birds Nest Water @	2,044'			
	Mahogany @	2,413'			
	Preset f/ GL @	2,600' MD			
	Note: 12.25" surface hole will usually be drilled ±400' below the bottom of lost circulation zone. Drilled depth may be ±200' of the estimated set depth depending on the acutal depth of the loss zone.				
Mud logging program TBD Open hole logging program f/ TD - surf csg			7-7/8"	4-1/2",11.6#, I-80 or equivalent LTC casing	Water/Fresh Water Mud 8.3-11.8 ppg
	Wasatch @	5,071'			
	Mverde @	7,864'			
	MVU2 @	8,815'			
	MVL1 @	9,380'			
	TD @	10,030'			Max anticipated Mud required 11.8 ppg

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL			WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'								
								2270	1370	254000
SURFACE	9-5/8"	0	to	2200	32.30	H-40	STC	0.58********	1.33	3.45
								3520	2020	564000
	9-5/8"	2200	to	2600	36.00	J-55	STC	1.14********	1.66	7.67
								7780	6350	201000
PRODUCTION	4-1/2"	0	to	10030	11.60	I-80	LTC	1.97	1.03	1.98

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point)

2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 11.8 ppg) .22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MASP 3948 psi

********* Burst SF is low but csg is stronger than formation at 2600 feet

********* EMW @ 2600 for 2270# is 16.8 ppg or 0.9 psi/ft

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500	Premium cmt + 2% CaCl + 25 pps flocele	215	60%	15.60	1.18
Option 1							
	TOP OUT CMT (1)	250	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	100		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
			NOTE: If well will circulate water to surface, option 2 will be utilized				
SURFACE							
Option 2	LEAD	2000	Prem cmt + 13% Gel + 10 pps gilsonite +.25 pps Flocele + 3% salt BWOC	230	35%	11.00	3.82
	TAIL	500	Premium cmt + 2% CaCl + 25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	4,570'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	500	60%	11.00	3.38
	TAIL	5,460'	50/50 Poz 'G' + 10% salt + 2% gel +.1% R-3	1530	60%	14.30	1.31

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 0% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utilized.

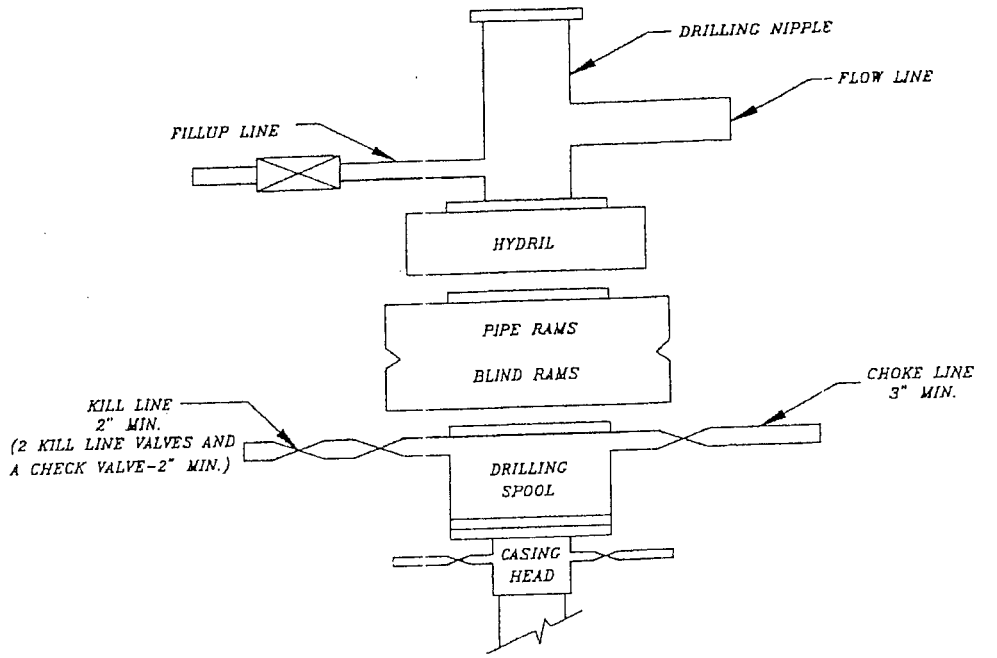
DRILLING ENGINEER: _____ DATE: _____

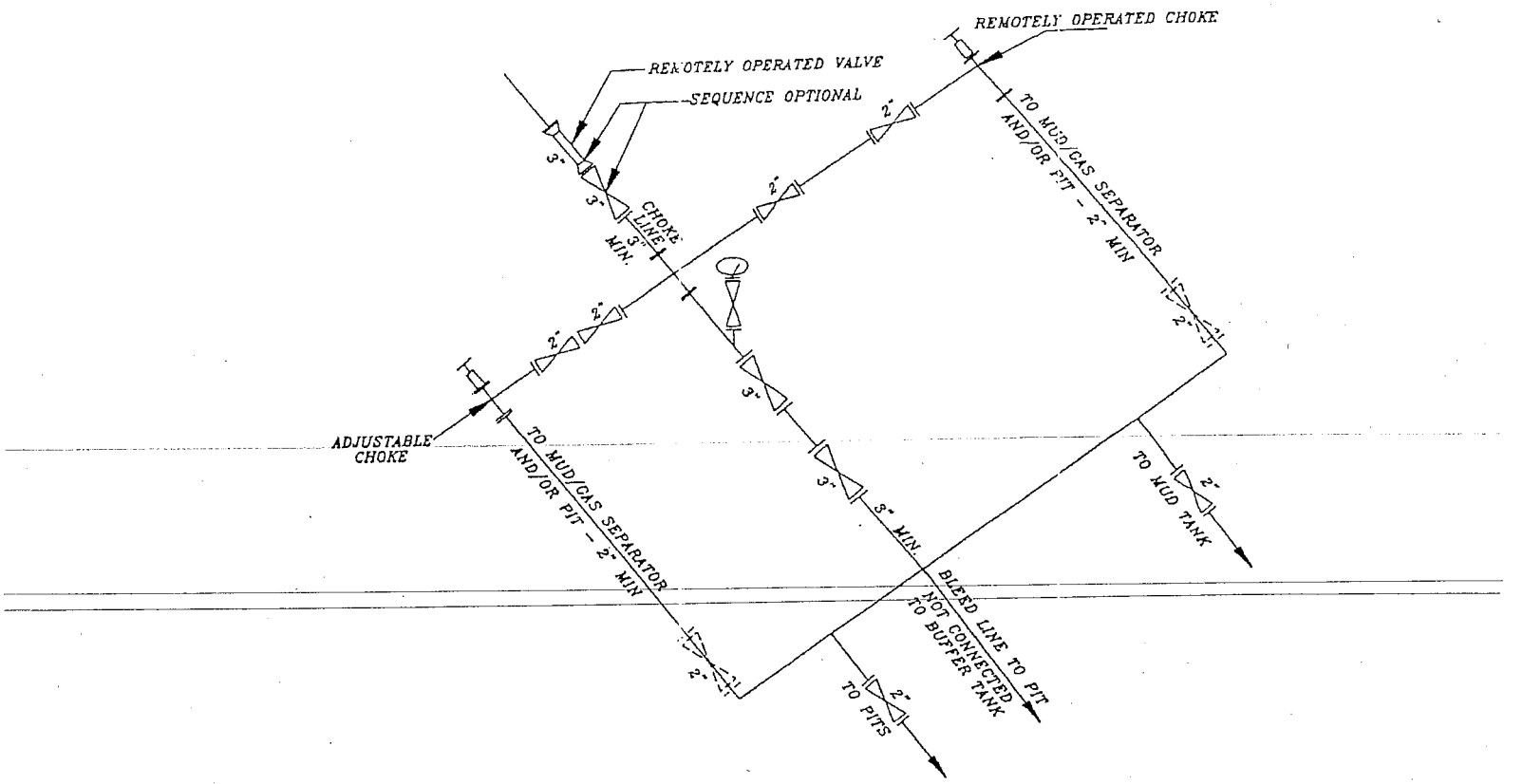
Brad Laney

DRILLING SUPERINTENDENT: _____ DATE: _____

Randy Bayne

5M BOP STACK and CHOKE MANIFOLD SYSTEM





NBU 921-14B
NW/NE SEC. 13, T9S, R21E
UINTAH COUNTY, UTAH
UTU-01193

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. **Existing Roads:**

Refer to the attached location directions.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

2. **Planned Access Roads:**

Please see the Natural Buttes Unit Standard Operating Procedure (SOP).

Approximately 0.1 +/- miles of new access road. Please refer to the attached Topo Map B.

3. **Location of Existing Wells Within a 1-Mile Radius:**

Please refer to Topo Map C.

4. **Location of Existing & Proposed Facilities:**

Please see the Natural Buttes Unit SOP.

Approximately 231' +/- of 4" pipeline is proposed from the location to an existing pipeline.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The requested color is Carlsbad Canyon Brown (2.5Y 6/2), a non-reflective earthtone.

5. **Location and Type of Water Supply:**

Please see the Natural Buttes SOP.

6. **Source of Construction Materials:**

Please see the Natural Buttes SOP.

7. **Methods of Handling Waste Materials:**

Please see the Natural Buttes SOP.

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E *(Request is in lieu of filing Form 3160-5, after initial production).*

8. **Ancillary Facilities:**

Please see the Natural Buttes SOP.

9. **Well Site Layout:** (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

Culverts will be installed where needed.

A run off diversion for drainage will be constructed where needed.

The reserve pit will be lined. When the reserve pit is closed the pit liner will be buried below plow depth.

Location size may change prior to the drilling of the well due to the current rig availability. If the proposed location is not large enough to accommodate the drilling rig. The location will be re-surveyed and a form 3160-5 will be submitted.

10. **Plans for Reclamation of the Surface:**

Please see the Natural Buttes SOP.

11. **Surface Ownership:**

The well pad and access road are located on lands owned by:

Ute Indian Tribe
P.O. Box 70
Fort Duchesne, Utah 84026
(435) 722-5141

12. **Other Information:**

A Class III Archaeological Survey Report has been conducted for this location and submitted to the Ute Indian Tribe prior to the on-site inspection.

This location is not within 460' from the boundary of the Natural Buttes Unit, nor is it within 460' of any non-committed tract lying within boundaries of the unit.

13. **Lessee's or Operator's Representative & Certification:**

Sheila Ucphego
Senior Land Admin Specialist
Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East
Vernal, UT 84078
(435) 781-7024

Randy Bayne
Drilling Manager
Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East
Vernal, UT 84078
(435) 781-7018

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under the terms and conditions of the lease for the operations conducted upon leased lands.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Indian Affairs Nationwide Bond #RLB0005239, Bureau of Land Management Nationwide Bold #WYB000291 and State of Utah Bond #RLB0005237.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Sheila Upchego

4/18/2007
Date

Kerr-McGee Oil & Gas Onshore LP

NBU #921-14B
SECTION 14, T9S, R21E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 6.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN EASTERLY DIRECTION APPROXIMATELY 5.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 3.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 1.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 1.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN LEFT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 0.4 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE WEST; FOLLOW ROAD FLAGS IN A WESTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 51.4 MILES.

Kerr-McGee Oil & Gas Onshore LP

NBU #921-14B

LOCATED IN UINTAH COUNTY, UTAH
SECTION 14, T9S, R21E, S.L.B.&M.

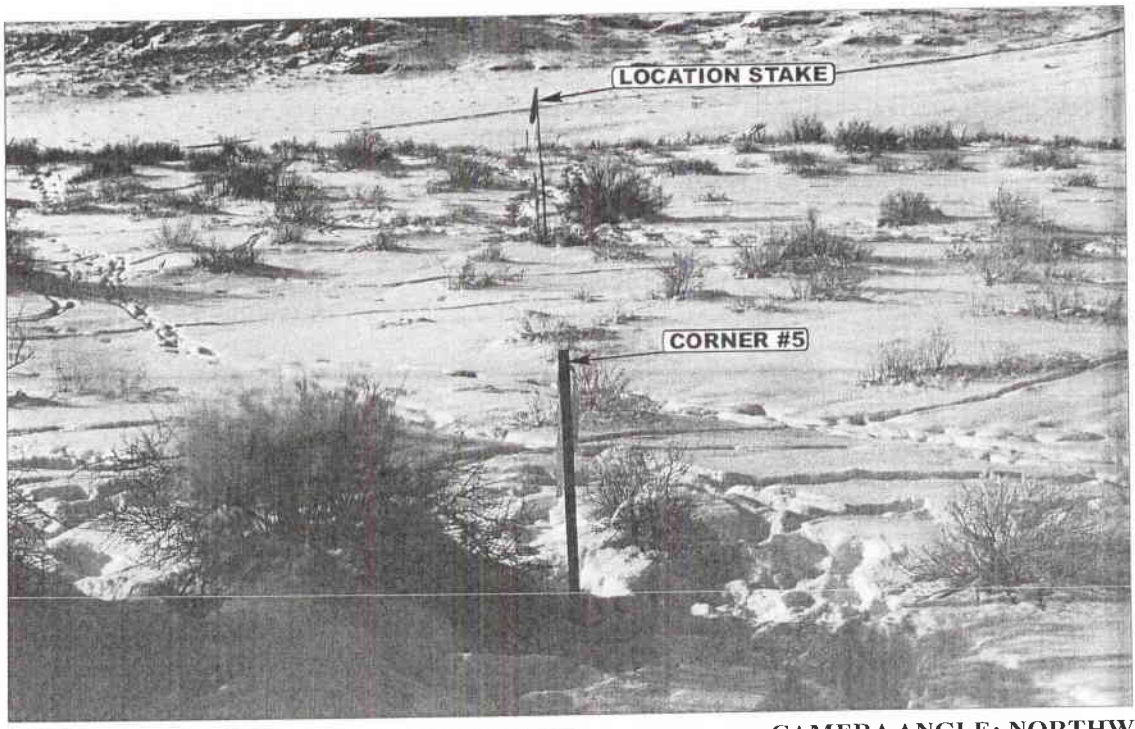


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE **CAMERA ANGLE: NORTHWESTERLY**

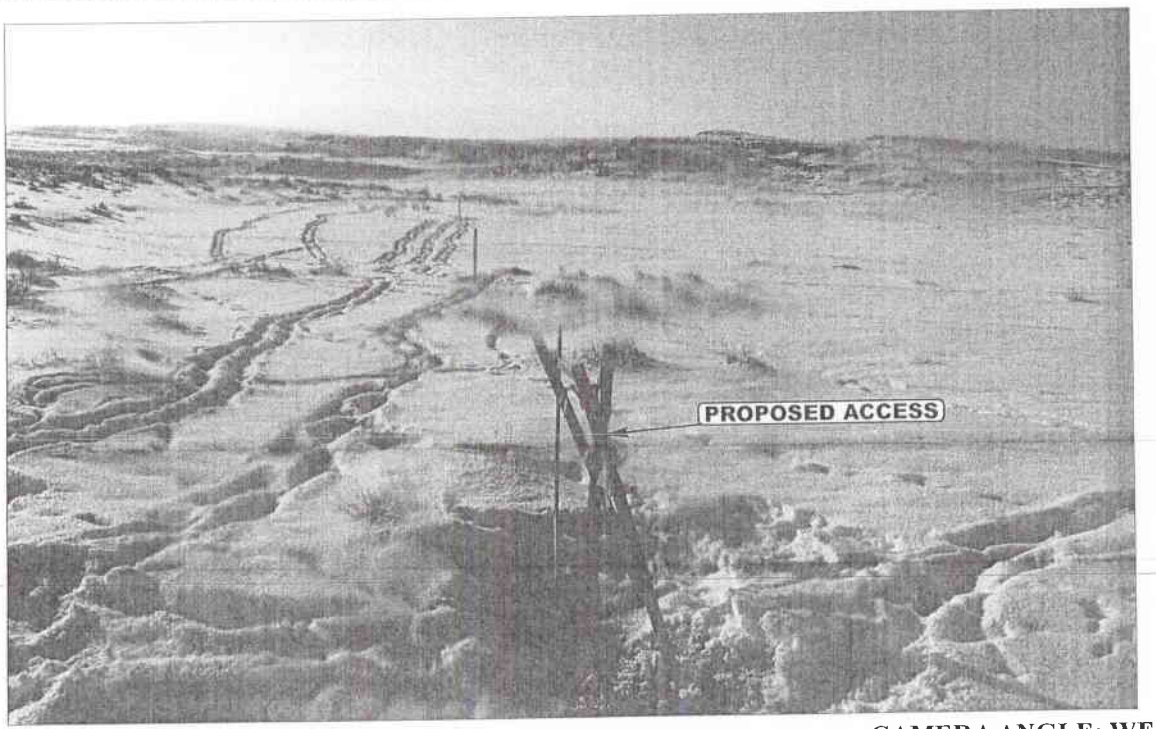
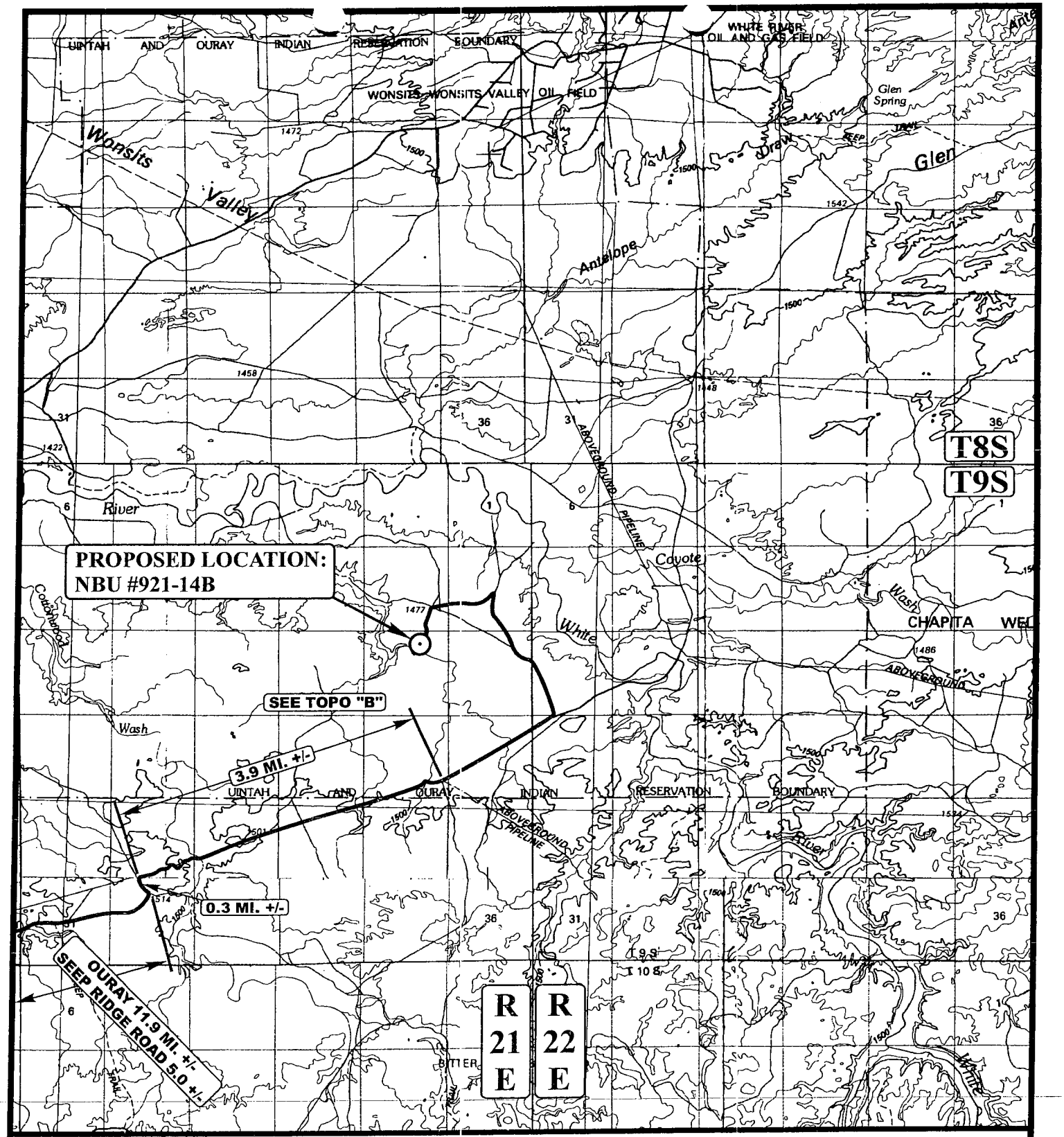


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS **CAMERA ANGLE: WESTERLY**

- Since 1964 -
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS	01 MONTH	30 DAY	07 YEAR	PHOTO
TAKEN BY: L.K.	DRAWN BY: C.P.	REVISED: 00-00-00		



LEGEND:

⊙ PROPOSED LOCATION

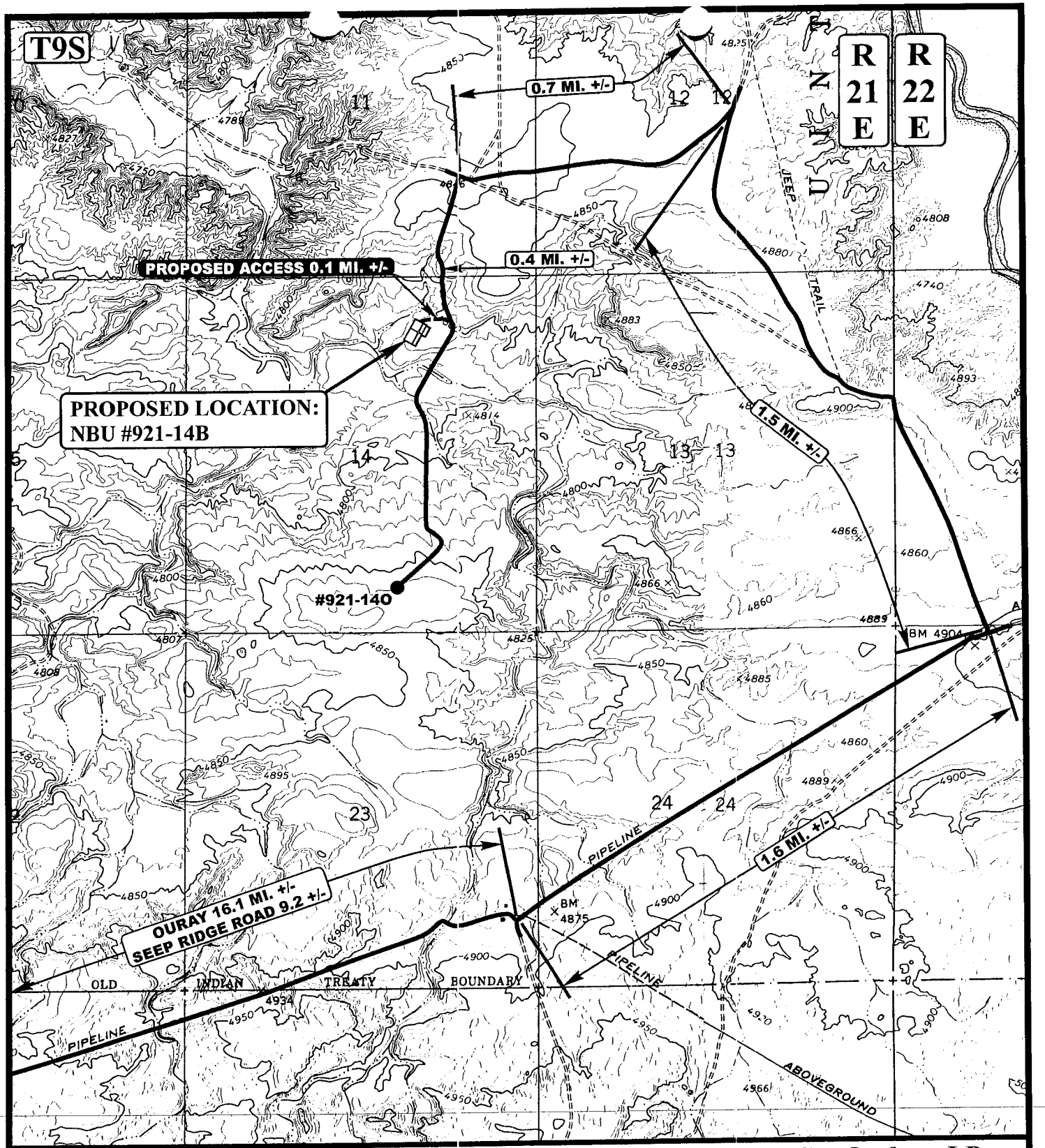
N

Kerr-McGee Oil & Gas Onshore LP

NBU #921-14B
SECTION 14, T9S, R21E, S.L.B.&M.
822' FNL 1764' FEL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	01 MONTH	30 DAY	07 YEAR	A TOPO
SCALE: 1:100,000	DRAWN BY: C.P.	REVISED: 00-00-00		



LEGEND:

EXISTING ROAD

PROPOSED ACCESS ROAD

N

Kerr-McGee Oil & Gas Onshore LP

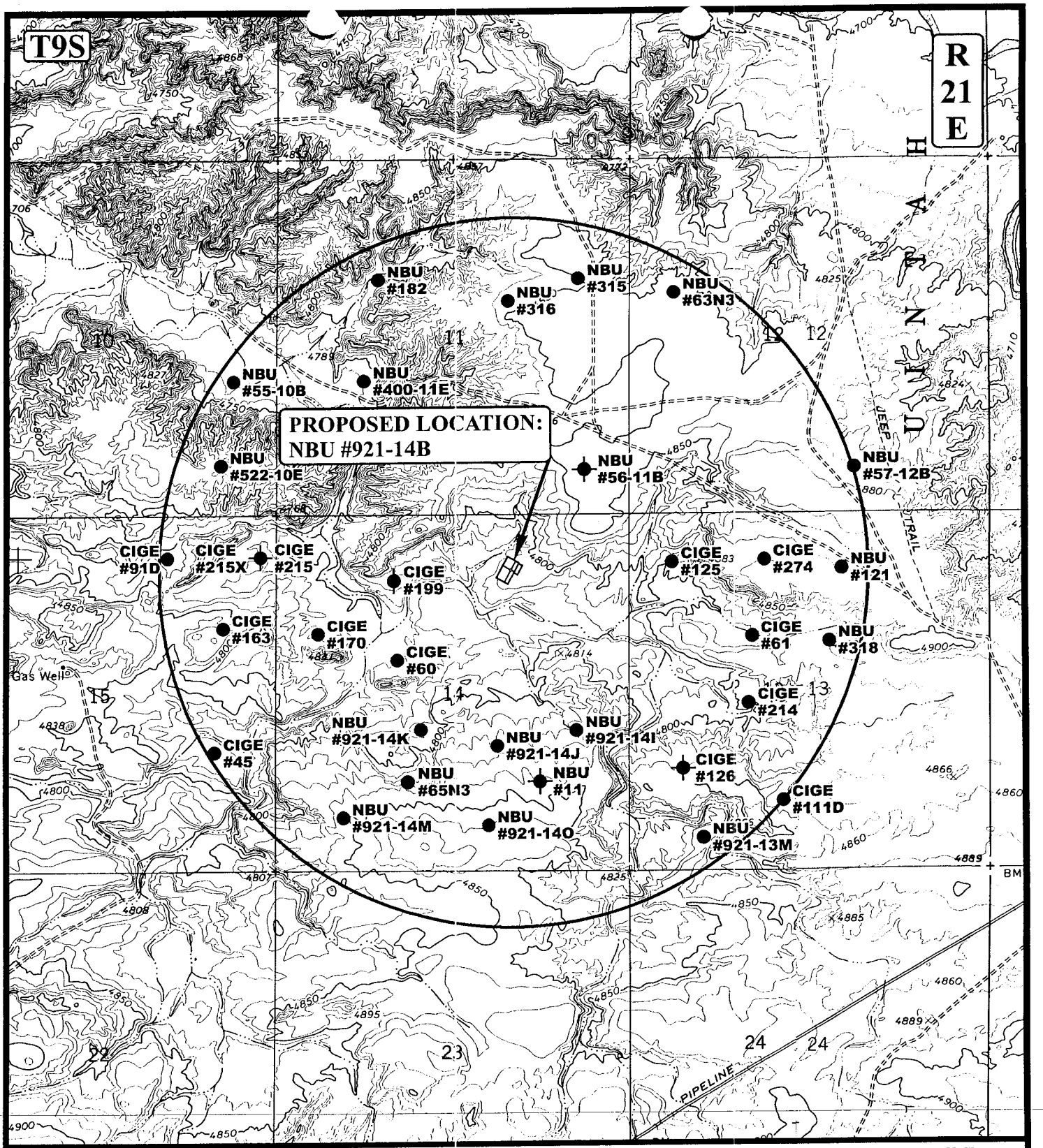
NBU #921-14B

SECTION 14, T9S, R21E, S.L.B.&M.

822' FNL 1764' FEL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	01 MONTH	30 DAY	07 YEAR	B TOPO
SCALE: 1" = 2000'	DRAWN BY: C.P.	REVISED: 00-00-00		



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

N

Kerr-McGee Oil & Gas Onshore LP

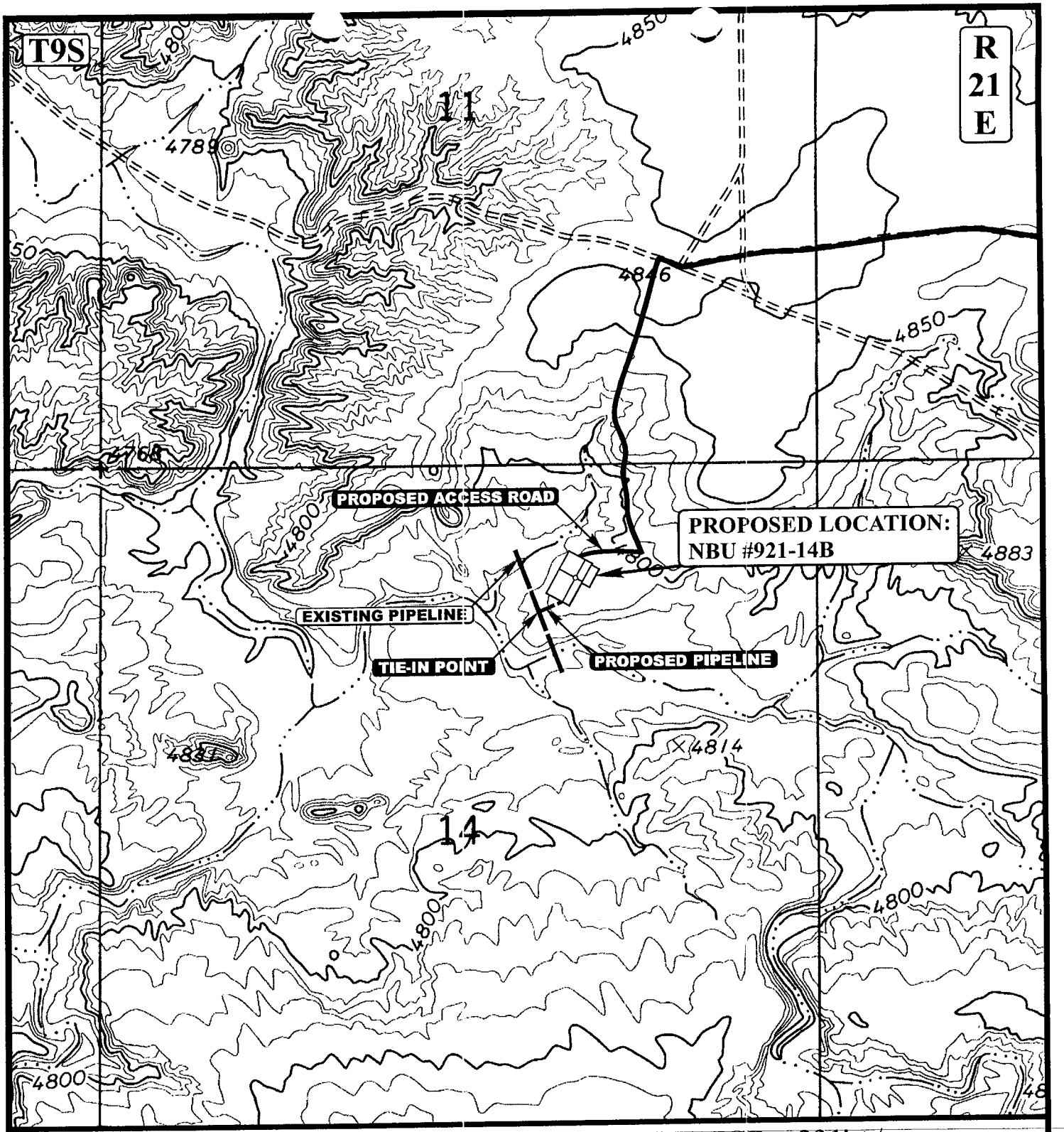
NBU #921-14B

SECTION 14, T9S, R21E, S.L.B.&M.

822' FNL 1764' FEL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	01 MONTH	30 DAY	07 YEAR
SCALE: 1" = 2000'	DRAWN BY: C.P.	REVISED: 00-00-00	C TOPO



APPROXIMATE TOTAL PIPELINE DISTANCE = 231' +/-

LEGEND:

PROPOSED ACCESS ROAD
EXISTING PIPELINE
PROPOSED PIPELINE

N

Kerr-McGee Oil & Gas Onshore LP

NBU #921-14B
SECTION 14, T9S, R21E, S.L.B.&M.
822' FNL 1764' FEL

UELS
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	01 MONTH	30 DAY	07 YEAR
SCALE: 1" = 1000'	DRAWN BY: C.P.	REVISED: 00-00-00	D TOPO

Kerr-McGee Oil & Gas Onshore LP

NBU #921-14B

PIPELINE ALIGNMENT

LOCATED IN UINTAH COUNTY, UTAH

SECTION 14, T9S, R21E, S.L.B.&M.

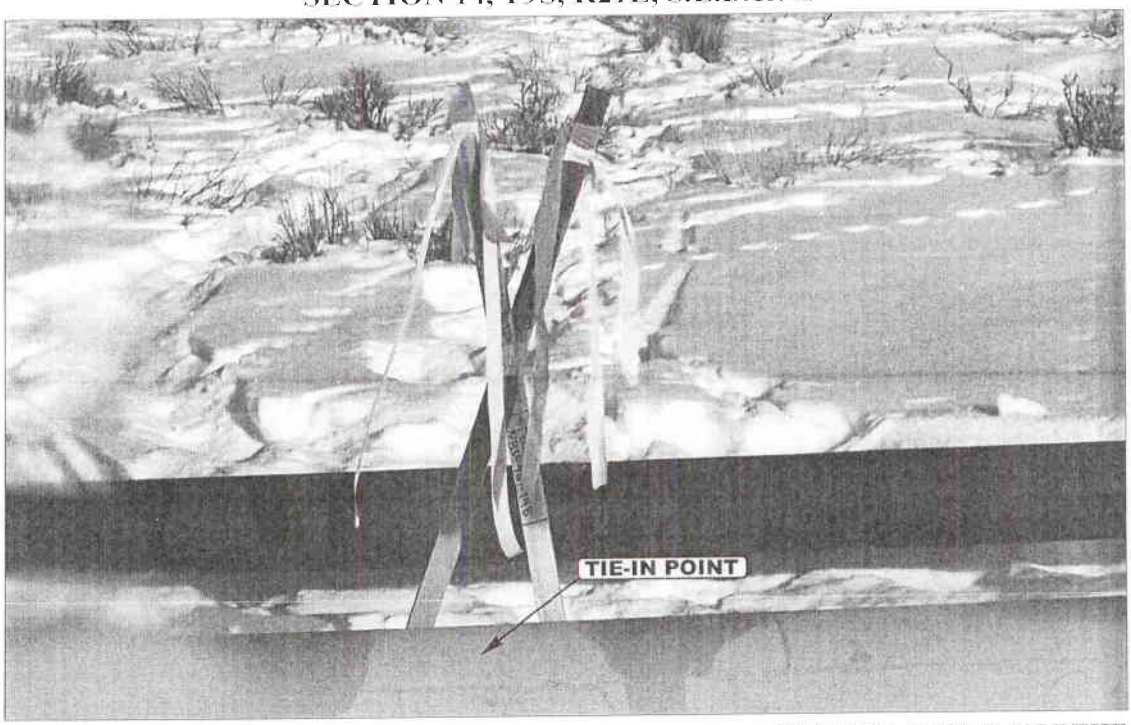


PHOTO: VIEW FROM TIE-IN POINT **CAMERA ANGLE: NORTHEASTERLY**

PHOTO: VIEW OF PIPELINE ALIGNMENT **CAMERA ANGLE: NORTHEASTERLY**

- Since 1964 -

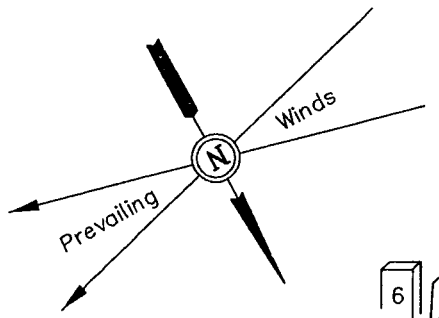
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

PIPELINE PHOTOS	01 MONTH	30 DAY	07 YEAR	PHOTO
TAKEN BY: L.K.	DRAWN BY: C.P.	REVISED: 00-00-00		

Kerr-McGee Oil & Gas Onshore LP

LOCATION LAYOUT FOR

NBU #921-14B
SECTION 14, T9S, R21E, S.L.B.&M.
822' FNL 1764' FEL



SCALE: 1" = 50'
DATE: 02-02-07
Drawn By: C.H.

F-5.4'
El. 86.8'

8

Sta. 3+50

Topsoil Stockpile

6

C-1.4'
El. 93.6'

58'

7 C-1.6'
El. 93.8'

Round Corners as Needed

Approx. Top of Cut Slope

200'

Approx. Top of Fill Slope

REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH

NOTE:
Flare Pit is to be located a min. of 100' from the Well Head.

PIPE TUBS

CATWALK

PIPE RACKS

FLARE PIT

Pit Topsoil

El. 95.8'

C-13.6'
(btm. pit)

C-4.8'
El. 97.0'

C-1.6'
El. 93.8'

Blooie Line

RIG

135'

Topsoil Stockpile

Sta. 1+50

C

D

10'

58'

70'

5

C-4.0'
El. 96.2'

MUD TANKS

DOG HOUSE

TOILET

1

F-3.6'
El. 88.6'

TRAILER

LIGHT PLANT

BOILER

WATER TANK

RESERVE PITS
(10' Deep)

Total Pit Capacity
W/2' of Freeboard
= 9,850 Bbls. ±
Total Pit Volume
= 2,780 Cu. Yds.

SLOPE 1 1/2 : 1

Reserve Pit Backfill & Spoils Stockpile

15' WIDE BENCH

150'

MUD TANKS

PUMP HOUSE

TRASH

Sta. 0+50

C-1.3'
El. 93.5'

150'

PROPANE STORAGE

A

10'

3 F-0.1'
El. 92.1'

Sta. 0+00

El. 97.7'

B

15' WIDE BENCH

C-15.5'
(btm. pit)

4 C-1.2'
El. 93.4'

2 F-8.8'
El. 83.4'

Proposed Access Road

FIGURE #1

NOTES:

Elev. Ungraded Ground At Loc. Stake = 4793.8'

FINISHED GRADE ELEV. AT LOC. STAKE = 4792.2'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

Kerr-McGee Oil & Gas Onshore LP

FIGURE #2

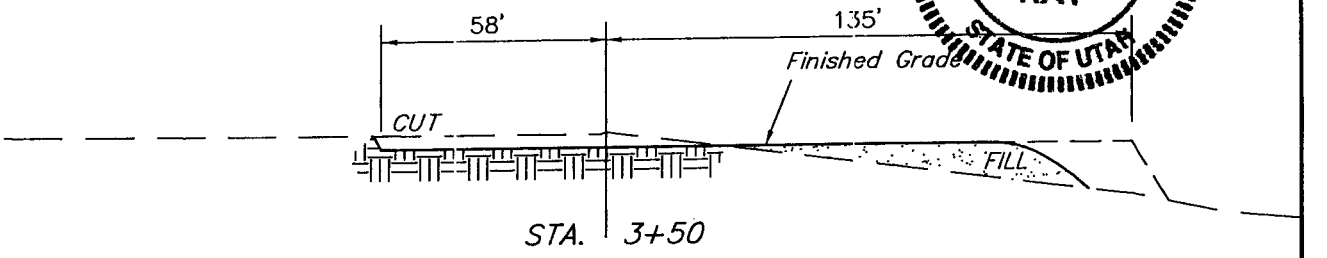
TYPICAL CROSS SECTIONS FOR

NBU #921-14B
SECTION 14, T9S, R21E, S.L.B.&M.
822' FNL 1764' FEL

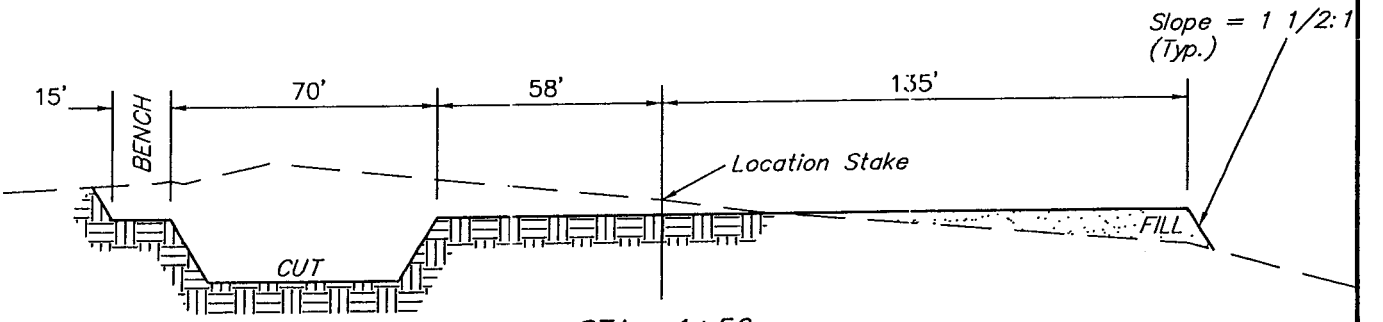
1" = 20'
X-Section Scale
1" = 50'

DATE: 02-02-07
Drawn By: C.H.

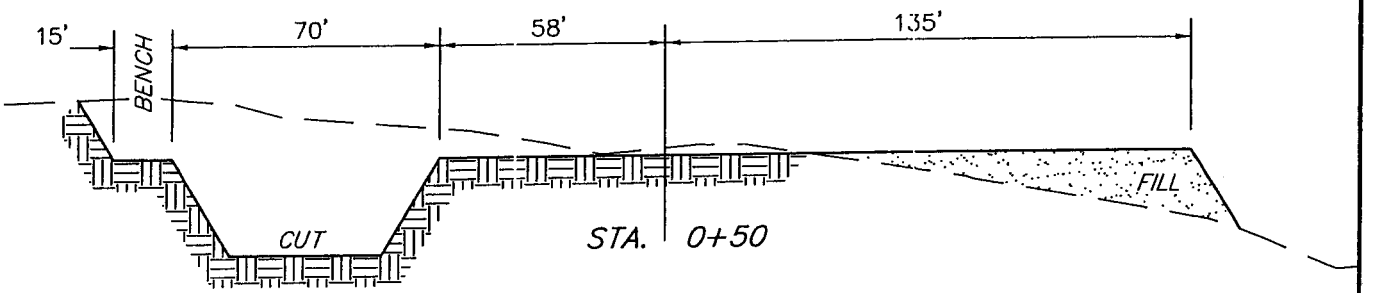
REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH



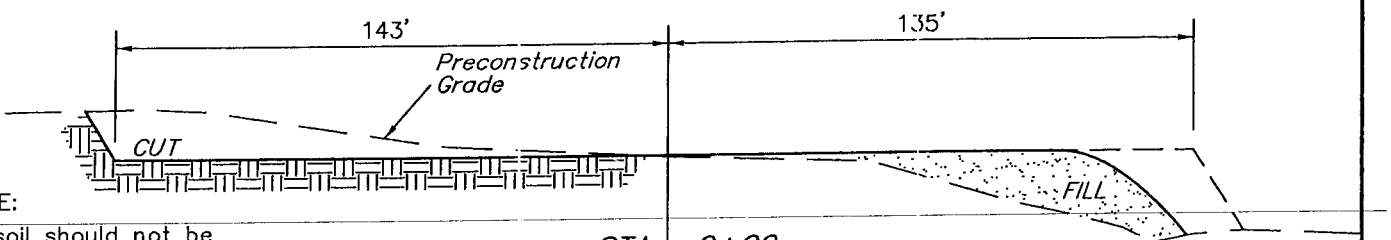
STA. 3+50



STA. 1+50



STA. 0+50



STA. 0+00

NOTE:
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

* NOTE:
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT
(12") Topsoil Stripping = 3,440 Cu. Yds.
Remaining Location = 6,350 Cu. Yds.

TOTAL CUT = 9,790 CU.YDS.
FILL = 4,960 CU.YDS.

EXCESS MATERIAL = 4,830 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.) = 4,830 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation) = 0 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

WORKSHEET

APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 04/23/2007

API NO. ASSIGNED: 43-047-39246

WELL NAME: NBU 921-14B

OPERATOR: KERR-MCGEE OIL & GAS (N2995)

PHONE NUMBER: 435-781-7024

CONTACT: SHEILA UPCHEGO

PROPOSED LOCATION:

NWNE 14 090S 210E

SURFACE: 0822 FNL 1764 FEL

BOTTOM: 0822 FNL 1764 FEL

COUNTY: UINTAH

LATITUDE: 40.04108 LONGITUDE: -109.5152

UTM SURF EASTINGS: 626674 NORTHINGS: 4433162

FIELD NAME: NATURAL BUTTES (630)

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-01193

PROPOSED FORMATION: WSMVD

SURFACE OWNER: 2 - Indian

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

✓ Plat

✓ Bond: Fed[1] Ind[] Sta[] Fee[]
(No. RLB0005239)

N Potash (Y/N)

Y Oil Shale 190-5 (B) or 190-3 or 190-13

✓ Water Permit
(No. 43-8496)

N RDCC Review (Y/N)
(Date:)

N/A Fee Surf Agreement (Y/N)

N/A Intent to Commingle (Y/N)

LOCATION AND SITING:

___ R649-2-3.

Unit: NATURAL BUTTES

___ R649-3-2. General

Siting: 460 From Qtr/Qtr & 920' Between Wells

___ R649-3-3. Exception

✓ Drilling Unit

Board Cause No: 173-14

Eff Date: 12-2-99

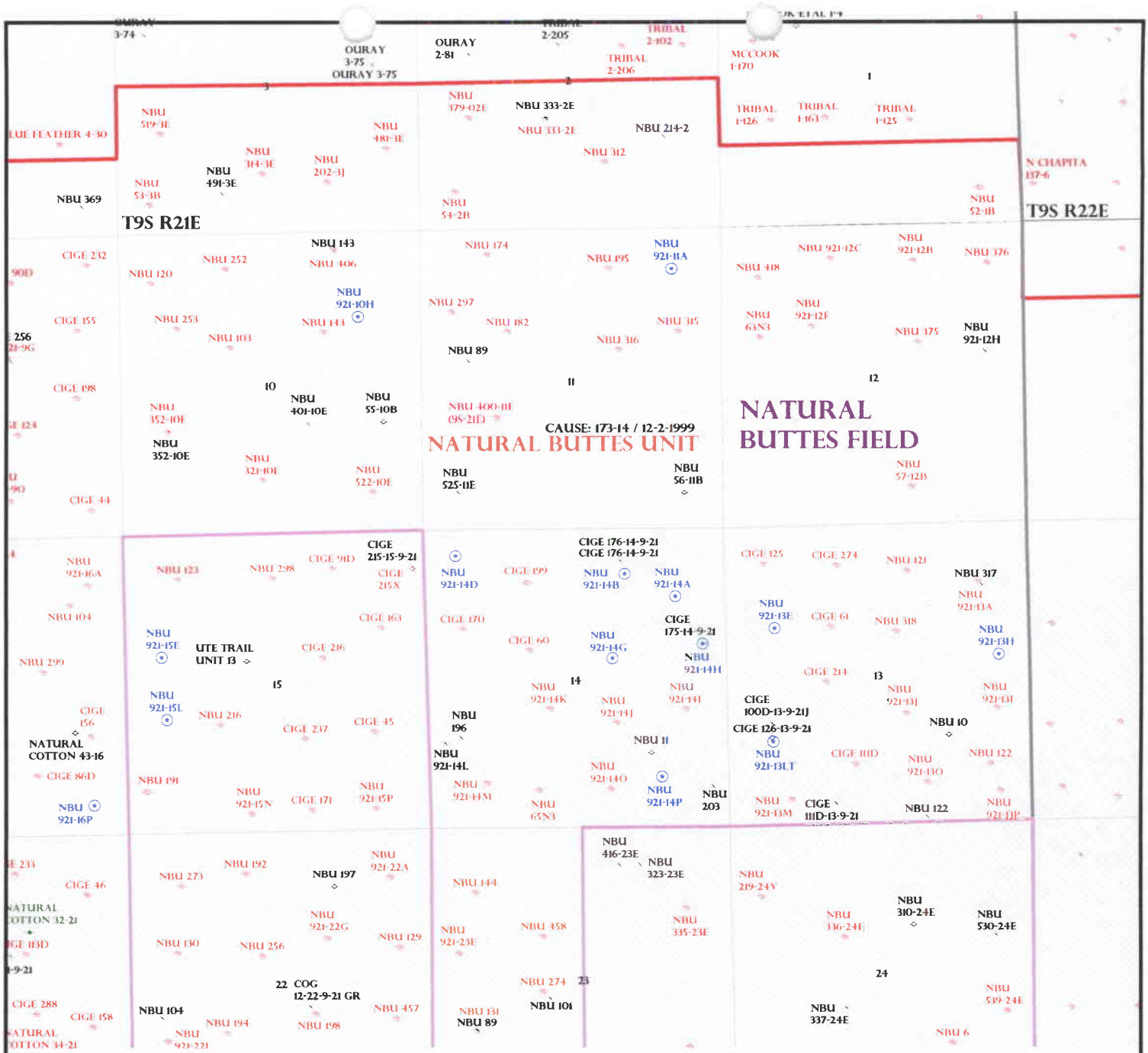
Siting: 460' fr u bdry & uncomm. tract

___ R649-3-11. Directional Drill

COMMENTS: Sop, Separate file

STIPULATIONS: 1- Federal Approval

2- OIL SHALE



OPERATOR: KERR MCGEE O&G (N2995)

SEC: 10,13,14,15 T.9S R. 21E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH

CAUSE: 173-14 / 12-2-1999

Field Status
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

Unit Status
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Wells Status
- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING

Utah Oil Gas and Mining

N W E S

PREPARED BY: DIANA MASON

DATE: 25-APRIL-2007

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

April 25, 2007

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2007 Plan of Development Natural Buttes Unit Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2007 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ Wasatch/MesaVerde)		
43-047-39237	NBU 921-8B	Sec 08 T09S R21E 0528 FNL 2080 FEL
43-047-39238	NBU 921-8H	Sec 08 T09S R21E 1870 FNL 0837 FEL
43-047-39239	NBU 921-8P	Sec 08 T09S R21E 0533 FSL 0578 FEL
43-047-39240	NBU 921-9K	Sec 09 T09S R21E 2633 FSL 2383 FWL
43-047-39241	NBU 921-9C	Sec 09 T09S R21E 0896 FNL 1569 FWL
43-047-39254	NBU 921-16P	Sec 16 T09S R21E 0537 FSL 0610 FEL
43-047-39255	NBU 921-18D	Sec 18 T09S R21E 0550 FNL 0827 FWL
43-047-39256	NBU 921-21L	Sec 21 T09S R21E 1785 FSL 0797 FWL
43-047-39242	NBU 921-10H	Sec 10 T09S R21E 1472 FNL 1104 FEL
43-047-39243	NBU 921-13H	Sec 13 T09S R21E 2323 FNL 0531 FEL
43-047-39244	NBU 921-13E	Sec 13 T09S R21E 1818 FNL 0851 FWL
43-047-39245	NBU 921-13LT	Sec 13 T09S R21E 1465 FSL 0792 FWL
43-047-39246	NBU 921-14B	Sec 14 T09S R21E 0822 FNL 1764 FEL
43-047-39247	NBU 921-14D	Sec 14 T09S R21E 0465 FNL 0542 FWL
43-047-39248	NBU 921-14P	Sec 14 T09S R21E 0878 FSL 1163 FEL
43-047-39249	NBU 921-14A	Sec 14 T09S R21E 1239 FNL 0883 FEL
43-047-39250	NBU 921-14G	Sec 14 T09S R21E 2319 FNL 1996 FEL
43-047-39251	NBU 921-14H	Sec 14 T09S R21E 2088 FNL 0422 FEL
43-047-39252	NBU 921-15E	Sec 15 T09S R21E 2184 FNL 0636 FWL
43-047-39253	NBU 921-15L	Sec 15 T09S R21E 2015 FSL 0713 FWL

We have no objections to permitting the wells so long as the unit operator receives an exception to the locating and siting requirements of the State of Utah (R649-3-2).

/s/ Michael L. Coulthard

bcc: File - Natural Buttes Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:4-25-07

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

Department of Natural Resources

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas & Mining

JOHN R. BAZA
Division Director

April 26, 2007

Kerr McGee Oil and Gas Onshore LP
1368 S 1200 E
Vernal, UT 84078

Re: Natural Buttes Unit 921-14B Well, 822' FNL, 1764' FEL, NW NE, Sec. 14, T. 9 South, R. 21 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-39246.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Uintah County Assessor
Bureau of Land Management, Vernal Office

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

Operator: Kerr McGee Oil and Gas Onshore LP

Well Name & Number Natural Buttes Unit 921-14B

API Number: 43-047-39246

Lease: UTU-01193

Location: NW NE Sec. 14 T. 9 South R. 21 East

Conditions of Approval

1. General

   Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

   Notify the Division with 24 hours of spudding the well.

   - Contact Carol Daniels at (801) 538-5284.

   Notify the Division prior to commencing operations to plug and abandon the well.

   - Contact Dustin Doucet at (801) 538-5281 office
     (801) 733-0983 home

3. Reporting Requirements

   All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.

5. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE – Other instructions on reverse side

5. Lease Serial No.
UTU-01193

6. If Indian, Allottee or Tribe Name
TRIBAL SURFACE

7. If Unit or CA/Agreement, Name and/or No.
UNIT #891008900A
NATURAL BUTTES UNIT

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
NBU 921-14B

2. Name of Operator
KERR-McGEE OIL & GAS ONSHORE LP

9. API Well No.
43-047-39246

3a. Address
1368 SOUTH 1200 EAST VERNAL, UT 84078

3b. Phone No. *(include area code)*
(435) 781-7024

10. Field and Pool, or Exploratory Area
NATURAL BUTTES

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
NW/NE SEC. 14, T9S, R21E 822'FNL, 1764'FEL

11. County or Parish, State
UINTAH COUNTY, UTAH

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other LOCATION MOVE
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

626487X 40.041512
4433211Y -109.515008

THE OPERATOR REQUESTS AUTHORIZATION TO MOVE THE SUBJECT LOCATION FROM THE PROPOSED SITE. THE OPERATOR MOVED THE LOCATION FROM 822'FNL, 1764'FEL TO THE NEW FOOTAGES OF 663'FNL, 1719'FEL. THE PROPOSED ACCESS ROAD IS APPROXIMATELY 330' , THE PIPELINE IS APPROXIMATELY 304' +/- OF 4" STEEL PIPELINE IS PROPOSED.

PLEASE REFER TO THE ATTACHED REVISED PLATS FOR THE LOCATION MOVE.

RECEIVED
JUN 18 2007
DIV. OF OIL, GAS & MINING

Federal Approval of this Action is Necessary

14. I hereby certify that the foregoing is true and correct

Name *(Printed/Typed)*
SHEILA UPCHEGO

Title
SENIOR LAND ADMIN SPECIALIST

Signature

Date
June 14, 2007

6-21-07 RM

THIS SPACE FOR FEDERAL OR STATE USE

Approved by

Title
BRADLEY G. HILL
ENVIRONMENTAL MANAGER

Date
06-20-07

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

Kerr-McGee Oil & Gas Onshore LP

NBU #921-14B
SECTION 14, T9S, R21E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 6.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN EASTERLY DIRECTION APPROXIMATELY 5.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 3.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 1.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 1.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN LEFT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 0.4 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE NORTHWEST; FOLLOW ROAD FLAGS IN A NORTHWESTERLY DIRECTION APPROXIMATELY 330' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 51.3 MILES.

Kerr-McGee Oil & Gas Onshore LP

NBU #921-14B

LOCATED IN UINTAH COUNTY, UTAH
SECTION 14, T9S, R21E, S.L.B.&M.

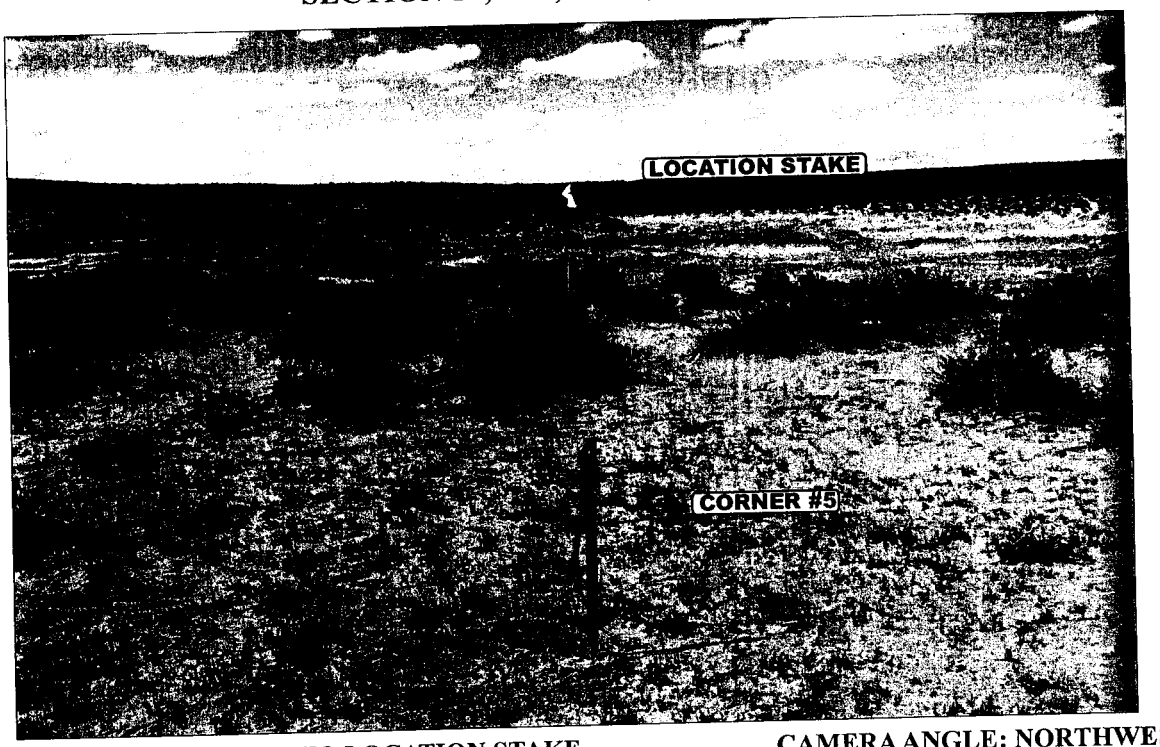


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE **CAMERA ANGLE: NORTHWESTERLY**

PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS **CAMERA ANGLE: NORTHWESTERLY**

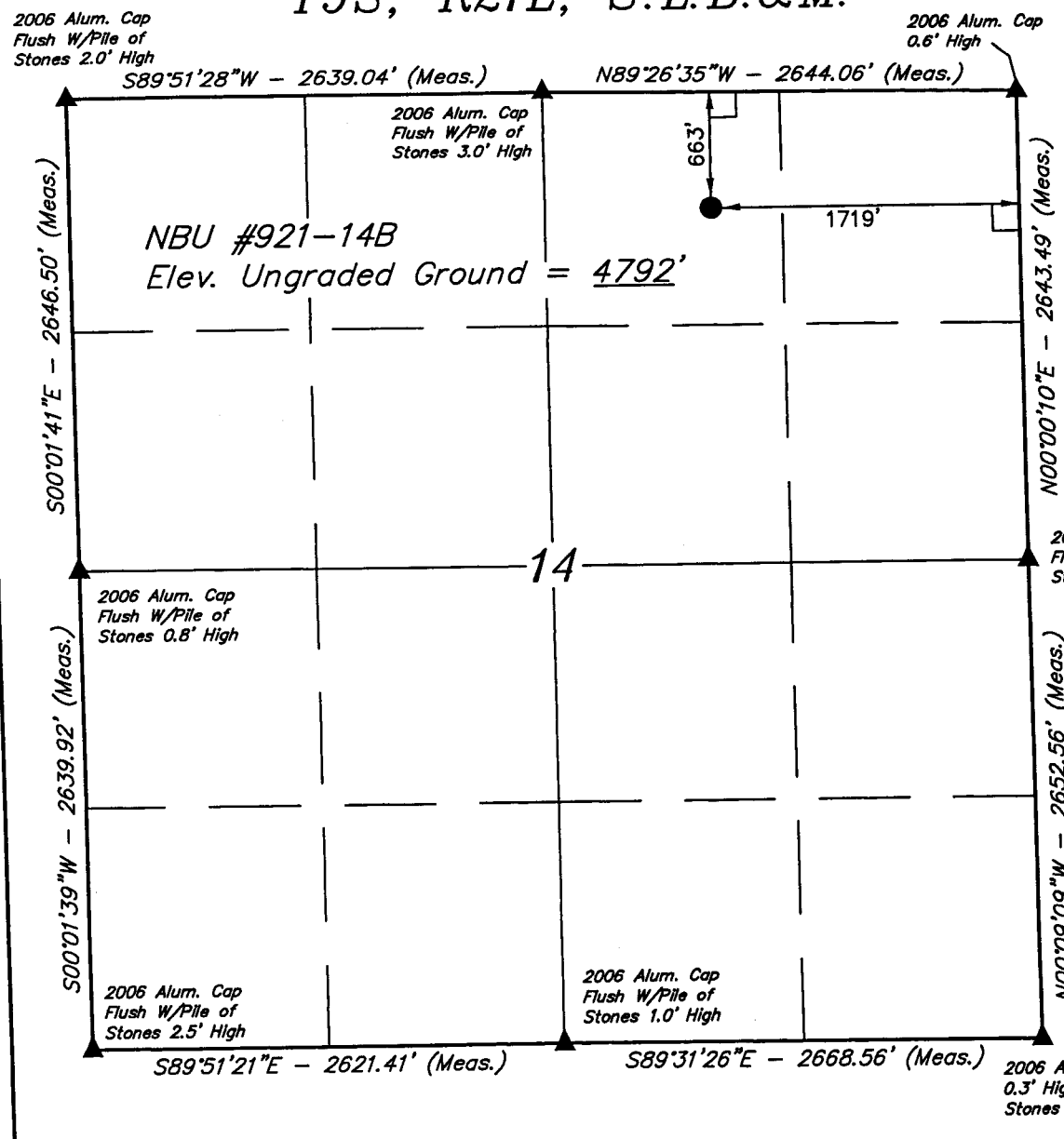
- Since 1964 -
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS	01 MONTH	30 DAY	07 YEAR	PHOTO
TAKEN BY: L.K.	DRAWN BY: C.P.	REVISED: 04-17-07		

T9S, R21E, S.L.B.&M.

Kerr-McGee Oil & Gas Onshore LP

Well location, NBU #921-14B, located as shown in the NW 1/4 NE 1/4 of Section 14, T9S, R21E, S.L.B.&M., Uintah County, Utah.

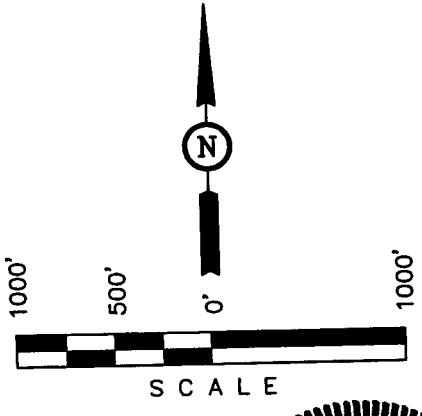


BASIS OF ELEVATION

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

REVISED: 04-17-07

LEGEND:

└ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

(NAD 83)
LATITUDE = 40°02'29.47" (40.041519)
LONGITUDE = 109°30'56.63" (109.515731)
(NAD 27)
LATITUDE = 40°02'29.60" (40.041556)
LONGITUDE = 109°30'54.15" (109.515042)

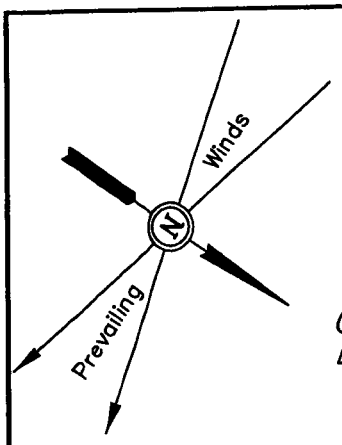
UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE: 1" = 1000'	DATE SURVEYED: 01-26-07	DATE DRAWN: 02-02-07
PARTY: L.K. J.M. C.H.	REFERENCES: G.L.O. PLAT	
WEATHER: WARM	FILE: Kerr-McGee Oil & Gas Onshore LP	

Kerr-McGee Oil & Gas Onshore LP

LOCATION LAYOUT FOR

NBU #921-14B
SECTION 14, T9S, R21E, S.L.B.&M.
663' FNL 1719' FEL



SCALE: 1" = 50'
DATE: 04-17-07
Drawn By: C.H.

C-4.7'
El. 92.5'

F-11.2'
El. 76.6'

C-1.1'
El. 88.9'

Sta. 3+50

58'

180'

Round Corners as Needed

Approx. Top of Cut Slope

Approx. Toe of Fill Slope

REGISTERED LAND SURVEYOR No. 161319 ROBERT L. KAY STATE OF UTAH

NOTE:
Flare Pit is to be located a min. of 100' from the Well Head.

PIPE TUBS

CATWALK

PIPE RACKS

FLARE PIT

El. 96.6'
C-18.8'
(btm. pit)

Bloole Line

C-3.8'
El. 91.6'

C-4.2'
El. 92.0'

RIG

Topsoil Stockpile

Sta. 1+70

135'

58'

10'

70'

MUD TANKS

DOG HOUSE

TOILET

F-5.9'
El. 81.9'

TRAILER

LIGHT PLANT

BOILER

WATER TANK

PUMP HOUSE

Existing Drainage

Reserve Pit Backfill & Spoils Stockpile

15' WIDE BENCH

RESERVE PITS (10' Deep)

Total Pit Capacity W/2' of Freeboard = 9,850 Bbls. ±
Total Pit Volume = 2,780 Cu. Yds.

SLOPE 1 1/2 : 1

150'

TRASH

C-7.3'
El. 95.1'

170'

Sta. 0+50

PROPANE STORAGE

Existing Drainage

El. 95.1'
C-17.3'
(btm. pit)

15' WIDE BENCH

30'

C-5.3'
El. 93.1'

Sta. 0+00

F-4.2'
El. 83.6'

CONSTRUCT DIVERSION DITCH

Pit T.S.

C-4.4'
El. 92.2'

Proposed Access Road

FIGURE #1

Existing Drainage

NOTES:

Elev. Ungraded Ground At Loc. Stake = 4792.0'

FINISHED GRADE ELEV. AT LOC. STAKE = 4787.8'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

Kerr-McGee Oil & Gas Onshore LP

FIGURE #2

TYPICAL CROSS SECTIONS FOR

NBU #921-14B

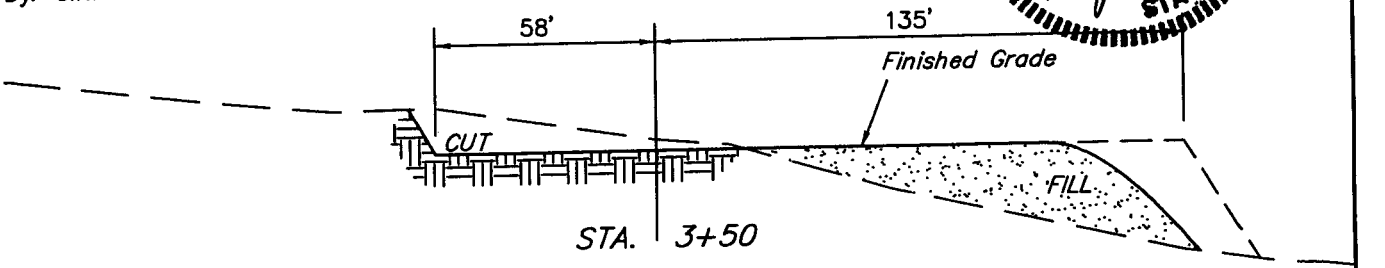
SECTION 14, T9S, R21E, S.L.B.&M.

663' FNL 1719' FEL

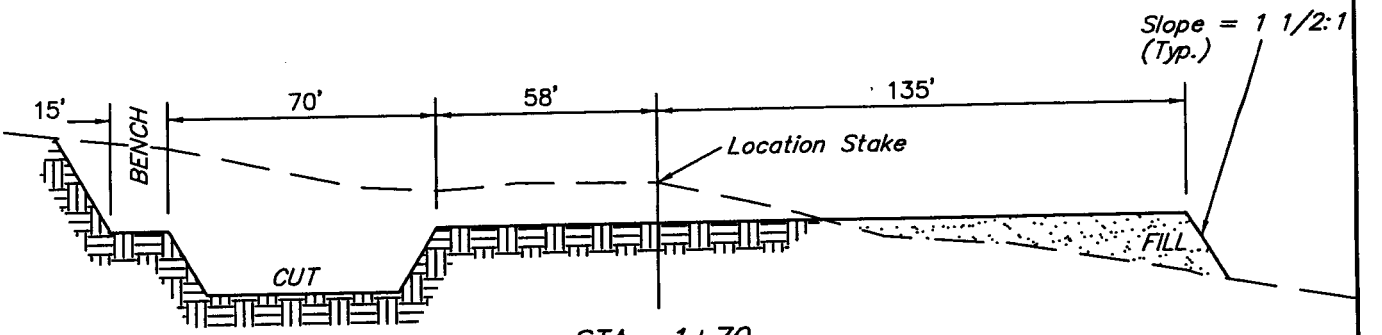
1" = 20'
X-Section Scale
1" = 50'

DATE: 04-17-07
Drawn By: C.H.

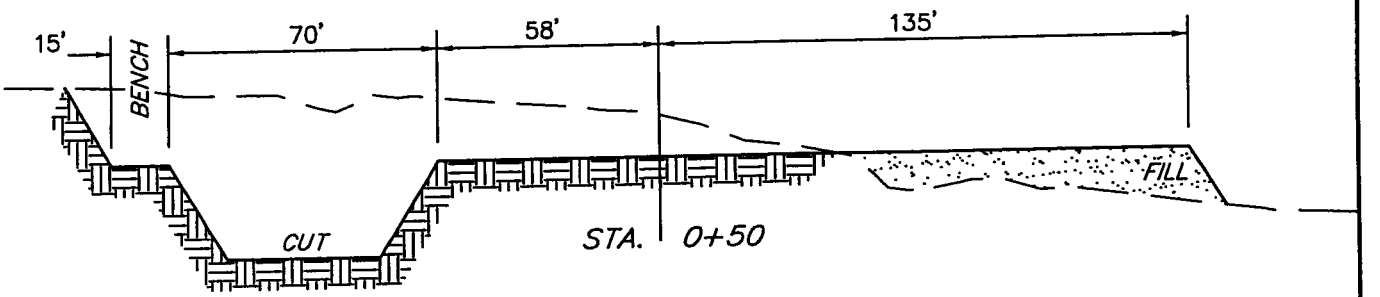
REGISTERED LAND SURVEYOR No. 161319 ROBERT L. STATE OF UTAH



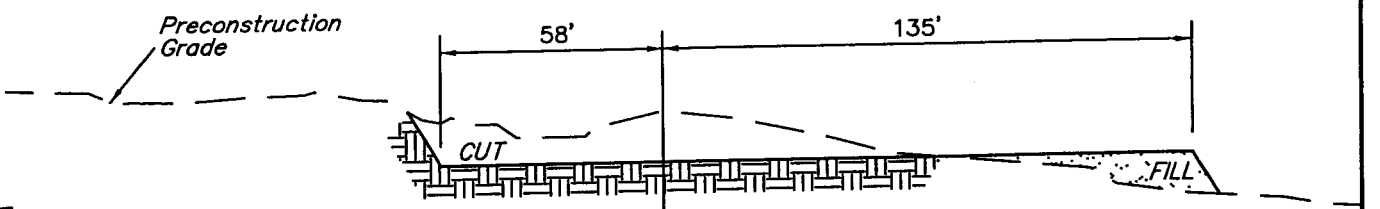
STA. 3+50



STA. 1+70



STA. 0+50



STA. 0+00

NOTE:
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

* NOTE:
FILL QUANTITY INCLUDES 5% FOR COMPACTION

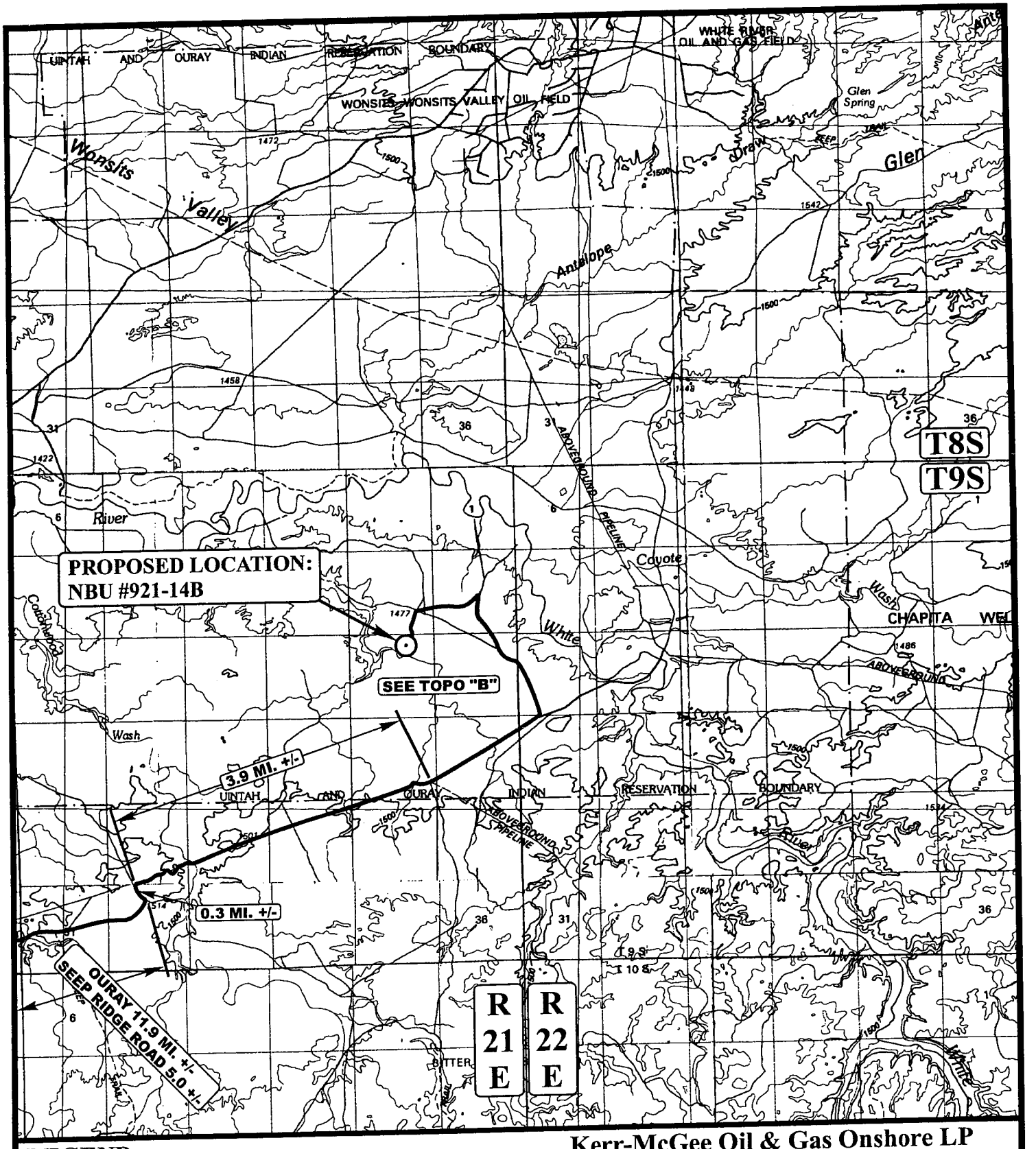
APPROXIMATE YARDAGES

CUT
(6") Topsoil Stripping = 3,620 Cu. Yds.
Remaining Location = 9,220 Cu. Yds.

TOTAL CUT = 12,840 CU.YDS.
FILL = 7,830 CU.YDS.

EXCESS MATERIAL = 5,010 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.) = 5,010 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation) = 0 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017



LEGEND:

⊙ PROPOSED LOCATION

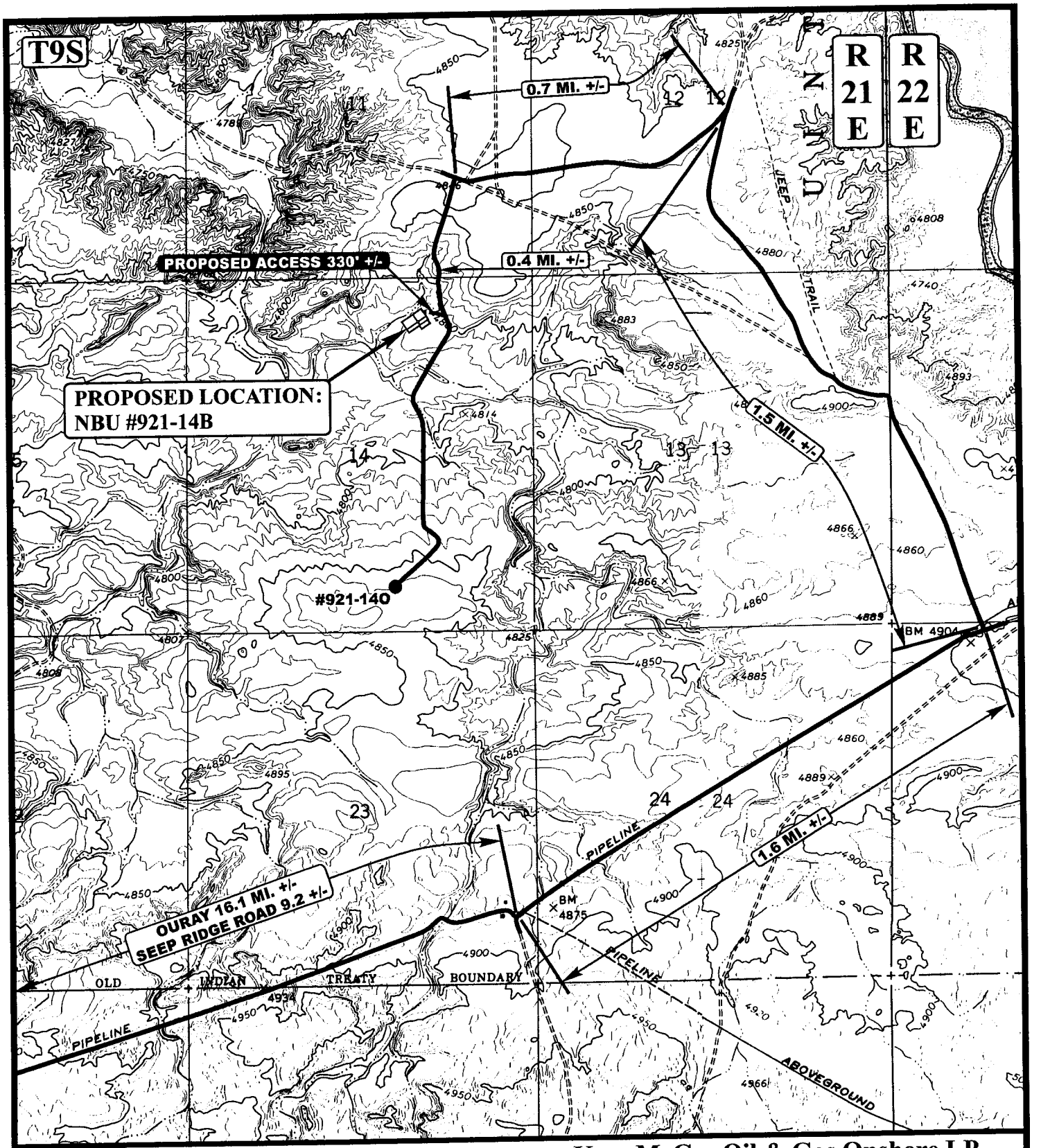
N

Kerr-McGee Oil & Gas Onshore LP

NBU #921-14B
SECTION 14, T9S, R21E, S.L.B.&M.
663' FNL 1719' FEL

UELS
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	01 MONTH	30 DAY	07 YEAR	A TOPO
SCALE: 1:100,000	DRAWN BY: C.P.	REVISED: 04-17-07		



LEGEND:

EXISTING ROAD

PROPOSED ACCESS ROAD

N

Kerr-McGee Oil & Gas Onshore LP

NBU #921-14B

SECTION 14, T9S, R21E, S.L.B.&M.

663' FNL 1719' FEL

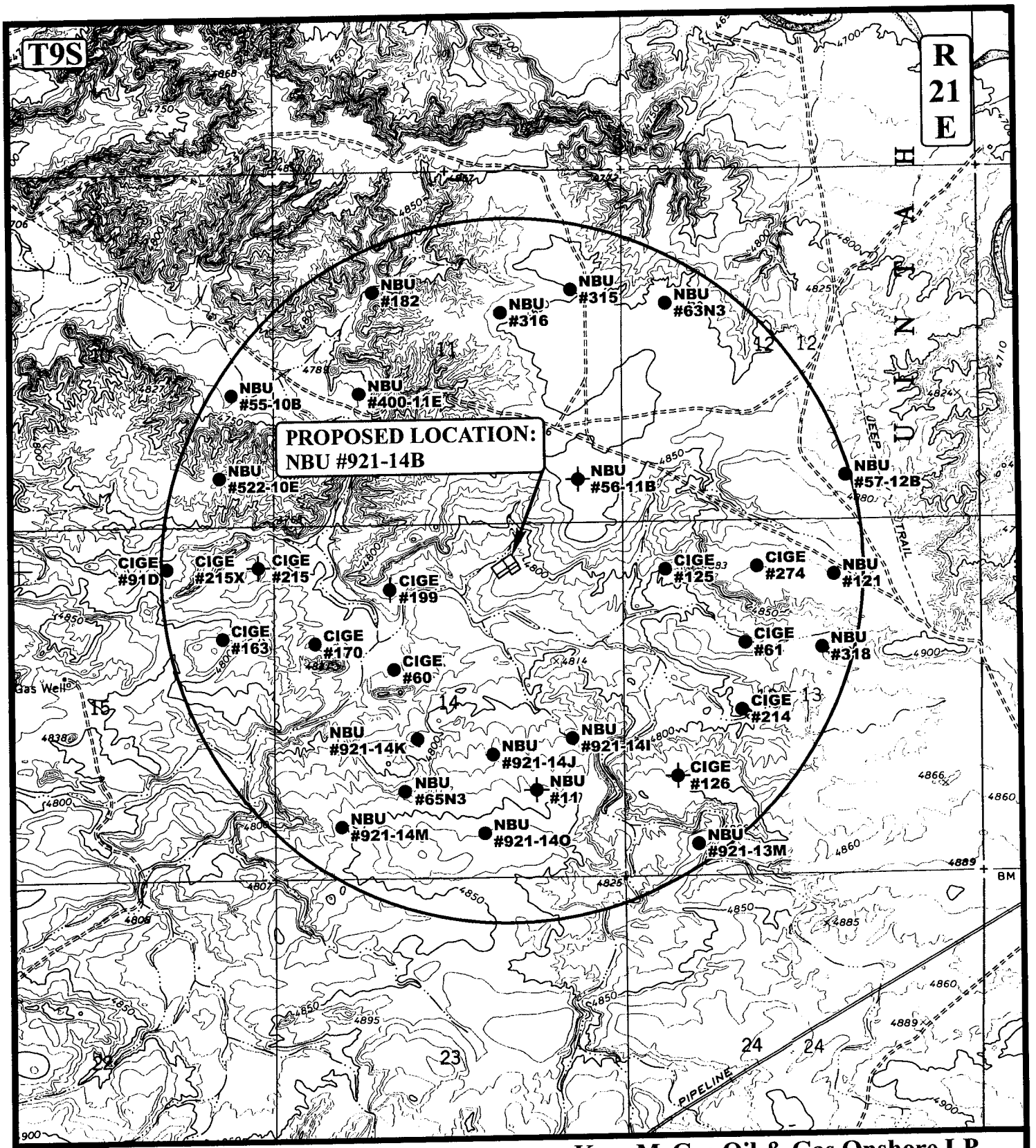
UELS

Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078

(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	01 MONTH	30 DAY	07 YEAR	B TOPO
SCALE: 1" = 2000'	DRAWN BY: C.P.	REVISED: 04-17-07		



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

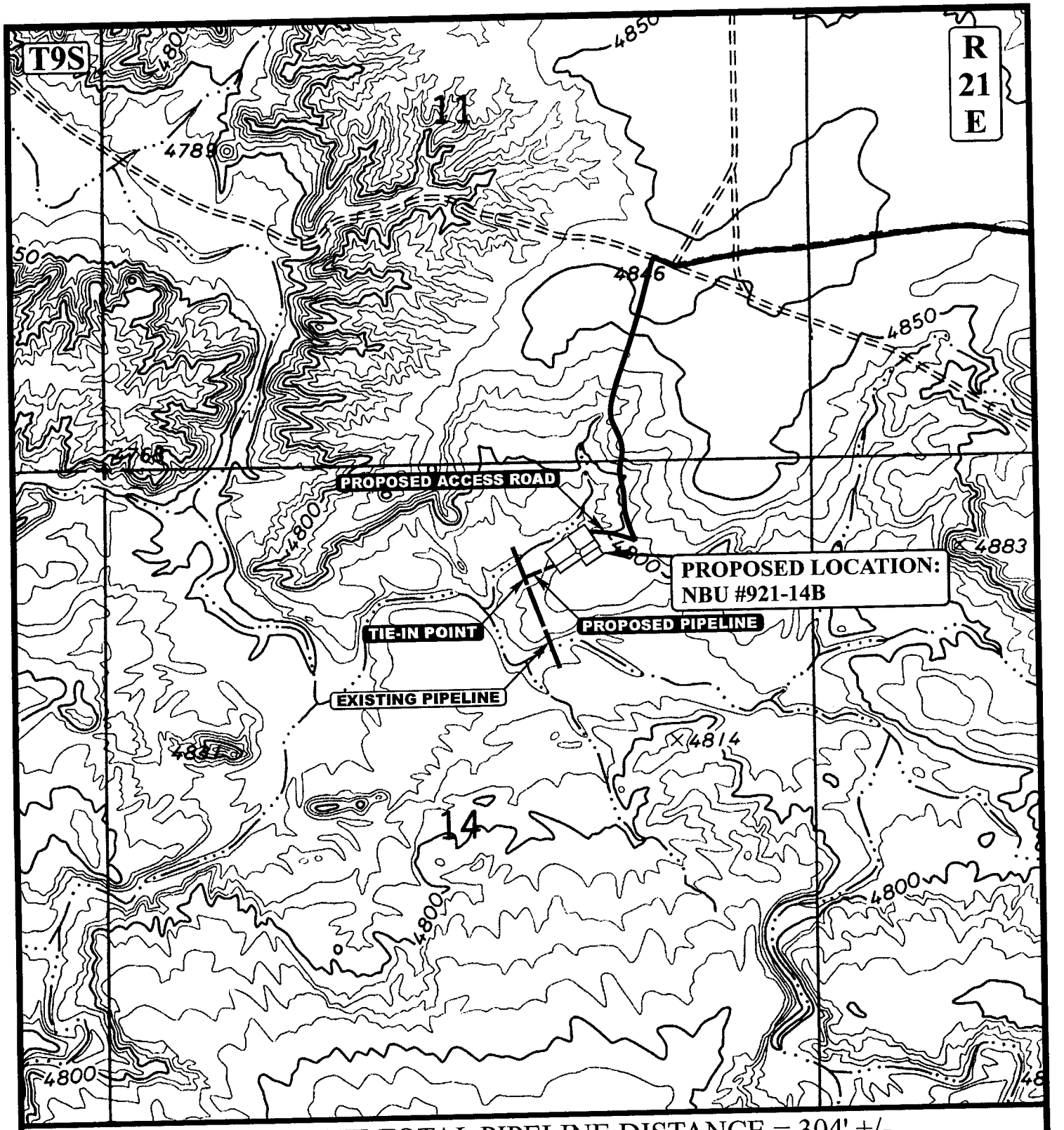
N

Kerr-McGee Oil & Gas Onshore LP

NBU #921-14B
SECTION 14, T9S, R21E, S.L.B.&M.
663' FNL 1719' FEL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	01 MONTH	30 DAY	07 YEAR	C TOPO
SCALE: 1" = 2000'	DRAWN BY: C.P.	REVISED: 04-17-07		



APPROXIMATE TOTAL PIPELINE DISTANCE = 304' +/-

LEGEND:

PROPOSED ACCESS ROAD
EXISTING PIPELINE
PROPOSED PIPELINE

N

Kerr-McGee Oil & Gas Onshore LP

NBU #921-14B
SECTION 14, T9S, R21E, S.L.B.&M.
663' FNL 1719' FEL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	01 MONTH	30 DAY	07 YEAR	D TOPO
SCALE: 1" = 1000'	DRAWN BY: C.P.	REVISED: 04-17-07		

Kerr-McGee Oil & Gas Onshore LP

NBU #921-14B

PIPELINE ALIGNMENT

LOCATED IN UINTAH COUNTY, UTAH

SECTION 14, T9S, R21E, S.L.B.&M.

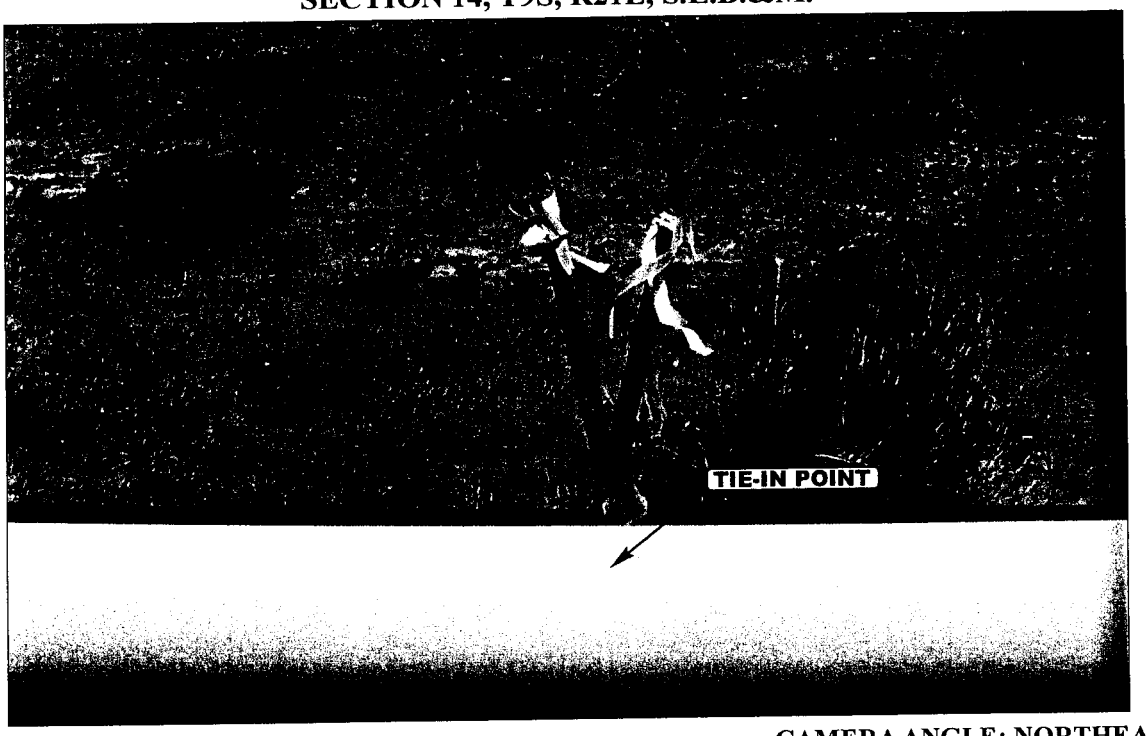


PHOTO: VIEW FROM TIE-IN POINT **CAMERA ANGLE: NORTHEASTERLY**

PHOTO: VIEW OF PIPELINE ALIGNMENT **CAMERA ANGLE: NORTHEASTERLY**

- Since 1964 -

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

PIPELINE PHOTOS	01 MONTH	30 DAY	07 YEAR	PHOTO
TAKEN BY: L.K.	DRAWN BY: C.P.	REVISED: 04-17-07		

RECEIVED

APR 19 2007

RECEIVED
VERNAL FIELD OFFICE
2007 JUN 19 AM 3:34
DEPT OF THE INTERIOR
BUREAU OF LAND MGMT

Form 3160-3
(August 1999)

BLM
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
UTU-01193

6. If Indian, Allottee or Tribe Name
TRIBAL SURFACE

1a. Type of Work: [X] DRILL [ ] REENTER

7. If Unit or CA Agreement, Name and No.
UNIT #891008900A

b. Type of Well: [ ] Oil Well [X] Gas Well [ ] Other [ ] Single Zone [X] Multiple Zone

8. Lease Name and Well No.
NBU 921-14B

2. Name of Operator
KERR MCGEE OIL AND GAS ONSHORE LP

9. API Well No.
43 047 39246

3A. Address
1368 SOUTH 1200 EAST VERNAL, UT 84078

3b. Phone No. *(include area code)*
(435) 781-7024

10. Field and Pool, or Exploratory
NATURAL BUTTES

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface **NW/NE 633'FNL, 1719'FEL**
At proposed prod. Zone

11. Sec., T., R., M., or Blk, and Survey or Area
SEC. 14, T9S, R21E

14. Distance in miles and direction from nearest town or post office*
29.6 +/- MILES FROM OURAY, UTAH

12. County or Parish
UINTAH

13. State
UTAH

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) **822'**

16. No. of Acres in lease
1920.00

17. Spacing Unit dedicated to this well
40.00

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. **REFER TO TOPO C**

19. Proposed Depth
10,030'

20. BLM/BIA Bond No. on file
RLB0005239

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
4794'GL

22. Approximate date work will start*
UPON APPROVAL

23. Estimated duration
TO BE DETERMINED

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office.
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized office.

25. Signature — Name *(Printed/Typed)* **SHEILA UPCHEGO** — Date **6/18/2007**

Title
SENIOR LAND ADMIN SPECIALIST

Approved by *(Signature)* — Name *(Printed/Typed)* **JERRY KENCZKA** — Date **3-7-2008**

Title **Assistant Field Manager Lands & Mineral Resources** — Office **VERNAL FIELD OFFICE**

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached. **CONDITIONS OF APPROVAL ATTACHED**

Title 18 U.S.C. Section 1001and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**(Instructions on reverse)*

NOTICE OF APPROVAL

RECEIVED
MAR 17 2008
DIV. OF OIL, GAS & MINING

UDOGM

NO NOS
07MIC0003A

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE
170 South 500 East VERNAL, UT 84078 (435) 781-4400

CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	**Kerr-McGee O&G Onshore, LP.**	**Location:**	**NWNE, Sec 14, T9S, R21E**
Well No:	**NBU 921-14B**	**Lease No:**	**UTU-01193**
API No:	**43-047-39246**	**Agreement**	**Natural Buttes Unit**

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
Supervisory NRS:	Karl Wright	(435) 781-4484	(435) 828-7381
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	
NRS/Enviro Scientist:	Chuck MacDonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	(435) 828-3546
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Darren Williams	(435) 781-4447	
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545
		Fax: (435) 781-4410	

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Construction Activity	-	The Ute Tribe Energy & Minerals Dept. shall be notified in writing 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion	-	Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)

Surface COAs:

Additional Stipulations:

- None

General Conditions of Approval

- A 30' foot corridor right-of-way shall be approved. Upon completion of each pipeline in corridor, they shall be identified and filed with the Ute Tribe.
- A qualified Archaeologist accompanied by a Tribal Technician will monitor trenching construction of pipeline.
- The Ute Tribe Energy & Minerals Department is to be notified, in writing 48 hours prior to construction of pipeline.
- Construction Notice shall be given to the department on the Ute Tribe workdays, which are Monday through Thursday. The Company understands that they may be responsible for costs incurred by the Ute Tribe after hours.
- The Company shall inform contractors to maintain construction of pipelines within the approved ROW's.
- The Company shall assure the Ute Tribe that "ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC." have acquired a current and valid Ute Tribal Business License and have "Access Permits" prior to construction, and will have these permits in all vehicles at all times.
- You are hereby notified that working under the *"umbrella"* of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.
- Any deviation of submitted APD's and ROW applications the Companies will notify the Ute Tribe and BIA in writing and will receive written authorization of any such change with appropriate authorization.
- The Company will implement "Safety and Emergency Plan." The Company's safety director will ensure its compliance.
- All Company employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's and/or ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations shall be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.

- All personnel shall refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.

- The personnel from the Ute Tribe Energy & Minerals Department shall be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.

- All mitigative stipulations contained in the Bureau of Indian Affairs Site Specific Environmental Assessment (EA) will be strictly adhered.

- Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.

DOWNHOLE CONDIIONS OF APPROVAL (COAs):

SITE SPECIFIC DOWNHOLE COAs:

- A surface casing shoe integrity test shall be performed.
- Production casing cement top shall be at a minimum of 200' above the surface casing shoe.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.

- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.

- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.

- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.

- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.

- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.

- No aggressive/fresh hard-banded drill pipe shall be used within casing.

- **Cement baskets shall not be run on surface casing.**

- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from

KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.

- Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**

- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.

- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:

    - Operator name, address, and telephone number.

    - Well name and number.

    - Well location (¼¼, Sec., Twn, Rng, and P.M.).

    - Date well was placed in a producing status (date of first production for which royalty will be paid).

    - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).

    - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.

    - Unit agreement and/or participating area name and number, if applicable.

    - Communitization agreement number, if applicable.

- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.

- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.

- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.

- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.

- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.

- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.

- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE – Other instructions on reverse side

5. Lease Serial No.
UTU-01193

6. If Indian, Allottee or Tribe Name
TRIBAL SURFACE

7. If Unit or CA/Agreement, Name and/or No.
UNIT #891008900A
NATURAL BUTTES UNIT

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
NBU 921-14B

2. Name of Operator
KERR-McGEE OIL & GAS ONSHORE LP

9. API Well No.
4304739246

3a. Address
1368 SOUTH 1200 EAST VERNAL, UT 84078

3b. Phone No. *(include area code)*
(435) 781-7024

10. Field and Pool, or Exploratory Area
NATURAL BUTTES

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
NW/NE SEC. 14, T9S, R21E 633'FNL, 1719'FEL

11. County or Parish, State
UINTAH COUNTY, UTAH

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other DOGM APD EXTENSION
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

THE OPERATOR REQUESTS AUTHORIZATION FOR AN ONE YEAR EXTENSION FOR THE SUBJECT WELL LOCATION, SO THE DRILLING OPERATIONS MAY BE COMPLETED. THE ORIGINAL APD WAS APPROVED BY THE DIVISION OF OIL, GAS AND MINING DEPARTMENT ON APRIL 26, 2007.

Approved by the
Utah Division of
Oil, Gas and Mining

COPY SENT TO OPERATOR
Date: 5.6.2008
Initials: KS

Date: 05-05-08
By:

RECEIVED
MAY 02 2008
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Name *(Printed/Typed)*	Title
SHEILA UPCHEGO	SENIOR LAND ADMIN SPECIALIST
Signature	Date
	April 22, 2008

THIS SPACE FOR FEDERAL OR STATE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

RESET

Application for Permit to Drill
Request for Permit Extension
Validation
(this form should accompany the Sundry Notice requesting permit extension)

API: 4304739246
Well Name: NBU 921-14B
Location: NW/NE SEC. 14, T9S, R21E
Company Permit Issued to: KERR McGEE OIL & GAS ONSHORE LP
Date Original Permit Issued: 4/26/2007

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes☐No☑

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes☐No☑

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes☐No☑

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes☐No☑

Has the approved source of water for drilling changed? Yes☐No☑

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes☐No☑

Is bonding still in place, which covers this proposed well? Yes☑No☐

Signature

4/22/2008
Date

Title: SENOIR LAND ADMIN SPECIALIST

Representing: KERR-McGEE OIL & GAS ONSHORE LP

RECEIVED
MAY 02 2008
DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP
Operator Account Number: N 2995
Address: 1368 SOUTH 1200 EAST
city VERNAL
state UT zip 84078
Phone Number: (435) 781-7024

Well 1

API Number	Well Name	QQ	Sec	Twp	Rng	County
4304739246	NBU 921-14B	NWNE	14	9S,	21E	UINTAH

Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date
B	99999	2900	9/25/2008	9/30/08

Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD
SPUD WELL LOCATION ON 09/25/2008 AT 8:00 AM

C

Well 2

API Number	Well Name	QQ	Sec	Twp	Rng	County

Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date

Comments:

Well 3

API Number	Well Name	QQ	Sec	Twp	Rng	County

Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date

Comments:

ACTION CODES:
- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

SHEILA UPCHEGO
Name (Please Print)
Signature
REGULATORY ANALYST
Title
9/25/2008
Date

RECEIVED
SEP 25 2008
DIV. OF OIL, GAS & MINING

(5/2000)

Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE – Other instructions on reverse side

5. Lease Serial No.
UTU-01193

6. If Indian, Allottee or Tribe Name
TRIBAL SURFACE

7. If Unit or CA/Agreement, Name and/or No.
UNIT #891008900A
NATURAL BUTTES UNIT

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
NBU 921-14B

2. Name of Operator
KERR-McGEE OIL & GAS ONSHORE LP

9. API Well No.
4304739246

3a. Address
1368 SOUTH 1200 EAST VERNAL, UT 84078

3b. Phone No. *(include area code)*
(435) 781-7024

10. Field and Pool, or Exploratory Area
NATURAL BUTTES

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
NW/NE SEC. 14, T9S, R21E 663'FNL, 1719'FEL

11. County or Parish, State
UINTAH COUNTY, UTAH

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other WEL SPUD
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX.

SPUD WELL LOCATION ON 09/25/2008 AT 8:00 AM

14. I hereby certify that the foregoing is true and correct

Name *(Printed/Typed)*
SHEILA UPCHEGO

Title
REGULATORY ANALYST

Signature

Date
September 25, 2008

THIS SPACE FOR FEDERAL OR STATE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

RECEIVED
OCT 06 2008
DIV. OF OIL, GAS & MINING

Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE – Other instructions on reverse side

5. Lease Serial No.
UTU-01193

6. If Indian, Allottee or Tribe Name
TRIBAL SURFACE

7. If Unit or CA/Agreement, Name and/or No.
UNIT #891008900A

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
NBU 921-14B

2. Name of Operator
KERR-McGEE OIL & GAS ONSHORE LP

9. API Well No.
4304739246

3a. Address
1368 SOUTH 1200 EAST VERNAL, UT 84078

3b. Phone No. *(include area code)*
(435) 781-7024

10. Field and Pool, or Exploratory Area
NATURAL BUTTES

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
633' FNL, 1719' FEL
NWNE, SEC.14 T9S-R21E

11. County or Parish, State
UINTAH COUNTY, UTAH

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other SET SURFACE CSG
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

MIRU PROPETRO AIR RIG ON 9/27/08 DRILLED 12 1/4" SURFACE HOLE TO 2760'. RAN 9 5/8" 36# J-55 SURFACE CSG. CMT W/ 250 SKS LEAD @ 11.3, 3.82, 23 GL/SK AND 200 SKS TAIL @ 15.8#, 1.15, 5.0 GAL/SK. NO RETURNS TO SURFACE. 1ST TOP JOB, 100 SKS DOWN BS, NO RETURNS. 2ND TOP JOB, 150 SKS 4% DOWN BS. 3RD TOP JOB, 100 SKS 4% DOWN BS. 4TH TOP JOB, 125 SKS 4% DOWN BS. HOLE STAYED FULL. RDMO.

WORT.

14. I hereby certify that the foregoing is true and correct

Name *(Printed/Typed)*
SHEILA UPCHEGO

Title
REGULATORY ANALYST

Signature
Sheila Upchego

Date
October 8, 2008

THIS SPACE FOR FEDERAL OR STATE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

RECEIVED
OCT 14 2008
DIV. OF OIL, GAS & MINING

Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE – Other instructions on reverse side

5. Lease Serial No.
UTU-01193

6. If Indian, Allottee or Tribe Name
TRIBAL SURFACE

7. If Unit or CA/Agreement, Name and/or No.
UNIT #891008900A

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
NBU 921-14B

2. Name of Operator
KERR-McGEE OIL & GAS ONSHORE LP

9. API Well No.
4304739246

3a. Address
1368 SOUTH 1200 EAST VERNAL, UT 84078

3b. Phone No. *(include area code)*
(435) 781-7024

10. Field and Pool, or Exploratory Area
NATURAL BUTTES

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
633' FNL, 1719' FEL
NWNE, SEC.14, T9S-R21E

11. County or Parish, State
UINTAH COUNTY, UTAH

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other FINAL DRILLING OPERATIONS
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

FINISHED DRILLING FROM 2760' TO 9924' ON 10/27/2008. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. LEAD CMT W/ 250 SX PREM LITE II @11.3 PPG 3.02 YIELD. TAILED CMT W/200 SX 50/50 POZ @ 14.3 PPG 1.31 YIELD. BUMP PLUG 500 PSI OVER FLOATS HELD. 153.4 BBLS BACK TO PIT. LAND CSG TEST NIPPLE DOWN BOPE CLEAN TANKS.

RELEASED ENSIGN RIG 83 ON 10/27/08 AT 1300 HRS

14. I hereby certify that the foregoing is true and correct

Name *(Printed/Typed)*
SHEILA UPCHEGO

Title
REGULATORY ANALYST

Signature
Sheila Upchego

Date
October 28, 2008

THIS SPACE FOR FEDERAL OR STATE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

RECEIVED
NOV 04 2008
DIV. OF OIL, GAS & MINING

Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE – Other instructions on reverse side

5. Lease Serial No.
UTU-01193

6. If Indian, Allottee or Tribe Name
TRIBAL SURFACE

7. If Unit or CA/Agreement, Name and/or No.
UNIT #891008900A

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
NBU 921-14B

2. Name of Operator
KERR-McGEE OIL & GAS ONSHORE LP

9. API Well No.
4304739246

3a. Address
1368 SOUTH 1200 EAST VERNAL, UT 84078

3b. Phone No. *(include area code)*
(435) 781-7024

10. Field and Pool, or Exploratory Area
NATURAL BUTTES

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
633' FNL, 1719' FEL
NW/NE, SEC.14, T9S-R21E

11. County or Parish, State
UINTAH COUNTY, UTAH

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other PRODUCTION START-UP
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

THE SUBJECT WELL LOCATION WAS PLACED ON PRODUCTION ON 11/16/2008 AT 1145 HRS.

PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY.

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)*
SHEILA UPCHEGO

Title
SENIOR LAND ADMIN SPECIALIST

Signature
Sheila Upchego

Date
November 17, 2008

THIS SPACE FOR FEDERAL OR STATE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

RECEIVED
NOV 24 2008
DIV. OF OIL, GAS & MINING

Wins No.: 94948

NBU 921-14B

Well Operations Summary Long

Operator	FIELD NAME	SPUD DATE	GL	KB	ROUTE
KERR MCGEE OIL & GAS ONSHORE LP	NATURAL BUTTES	09/27/2008	4,792	4809	V53

API	STATE	COUNTY	DIVISION
4304739246	UTAH	UINTAH	ROCKIES

Long/Lat.: 40.04108 / -109.51589 **Q-Q/Sect/Town/Range:** NWNE / 14 / 9S / 21E **Footages:** 822.00' FNL 1,764.00' FEL

Wellbore: NBU 921-14B

MTD	TVD	PBMD	PBTVD

EVENT INFORMATION:
EVENT ACTIVITY: DRILLING
OBJECTIVE: DEVELOPMENT
OBJECTIVE 2: ORIGINAL
REASON:
START DATE: 9/25/2008
END DATE: 10/27/2008
DATE WELL STARTED PROD.: 9/27/2008
Event End Status: COMPLETE
AFE NO.: 2007705

RIG OPERATIONS:	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
ENSIGN 83 / 83	10/11/2008	10/11/2008	10/10/2008	10/14/2008	10/25/2008	10/27/2008	10/28/2008

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
9/27/2008	SUPERVISOR: LEW WELDON						
	15:00 - 0:00	9.00	DRLSUR	02		P	MOVE IN AND RIG UP AIR RIG SPUD WELL @ 1500 HR 9/27/08 DA AT REPORT TIME 810'
9/28/2008	SUPERVISOR: LEW WELDON						
	0:00 - 12:00	12.00	DRLSUR	02		P	RIG DRILLING AHEAD NO WATER 1260'
	12:00 - 0:00	12.00	DRLSUR	02		P	RIG DRILLING AHEAD NO WATER 1560'
9/29/2008	SUPERVISOR: LEW WELDON						
	0:00 - 12:00	12.00	DRLSUR	02		P	RIG DRILLING AHEAD NO WATER 1800' RUN SURVEY .5 DEG DA
	12:00 - 0:00	12.00	DRLSUR	02		P	RIG DRILLING AHEAD HIT WATER ZONE @ 1950' DA 1980' AT REPORT TIME
9/30/2008	SUPERVISOR: LEW WELDON						
	0:00 - 12:00	12.00	DRLSUR	02		P	RIG DRILLING AHEAD HIT ANOTHER WATER ZONE @ 1980' CIRCULATING WITH SKID PUMP 2010'
	12:00 - 19:00	7.00	DRLSUR	02		P	RIG DRILLED TO 2190' STUCK PIPE
	19:00 - 22:00	3.00	DRLSUR	16	B	X	WORK PIPE FREE PREPAIR TO LDDS FOR NEW BIT
	22:00 - 0:00	2.00	DRLSUR	05	A	P	LDDS CHANE OUT TRICONE
10/1/2008	SUPERVISOR: LEW WELDON						
	0:00 - 2:00	2.00	DRLSUR	05	A	P	TRIP IN HOLE WITH NEW BIT

	0:00 - 2:00	2.00	DRLSUR	05	A	P	TRIP IN HOLE WITH NEW BIT
	2:00 - 0:00	22.00	DRLSUR	02		P	DRILL TO 2400'
10/2/2008	SUPERVISOR: LEW WELDON					DW	
	0:00 - 5:30	5.50	DRLSUR	02		P	DRILL TO 2760', CONDITION HOLE 1 HR.
	5:30 - 10:00	4.50	DRLSUR	05	D	P	LDDS
	10:00 - 16:00	6.00	DRLSUR	11	B	P	RUN 64 JTS. 2704' OF 9 5/8" CSG.
	16:00 - 17:30	1.50	DRLSUR	15	A	P	CEMENT 1ST STAGE WITH 250 SKS LEAD @ 11.3, 3.82, 23 GL/SK AND 200 SKS TAIL @ 15.8#, 1.15, 5.0 GAL/SK. NO RETURNS TO SURFACE.
	17:30 - 18:00	0.50	DRLSUR	15	A	P	1ST TOP JOB, 100 SKS DOWN BS, NO RETURNS.
	18:00 - 20:00	2.00	DRLSUR	15	A	P	2ND TOP JOB, 150 SKS 4% DOWN BS.
	20:00 - 21:00	1.00	DRLSUR	15	A	P	3RD TOP JOB, 100 SKS 4% DOWN BS.
	22:00 - 0:00	2.00	DRLSUR	15	A	P	4TH TOP JOB, 125 SKS 4% DOWN BS. HOLE STAYED FULL. RDMO.
10/11/2008	SUPERVISOR: SID ARMSTRONG						
	0:00 - 0:00	24.00	DRLPRO	01	A	P	R/D & WILL BE MOVING THIS AM W/ JONES TRUCKING.
10/12/2008	SUPERVISOR: SID ARMSTRONG						
	0:00 - 0:00	24.00	DRLPRO	01	B	P	MOVE 100 % & R/U 50 %
10/13/2008	SUPERVISOR: SID ARMSTRONG						
	0:00 - 10:00	10.00	DRLPRO	01	B	P	R/U RIG
	10:00 - 16:00	6.00	DRLPRO	13	C	P	TEST B.O.P'S
	16:00 - 0:00	8.00	DRLPRO	05	A	P	INSTALL WEAR BUSHING & R/U LAYDOWN MACHINE & P/U BHA & D.P
10/14/2008	SUPERVISOR: SID ARMSTRONG						
	0:00 - 1:30	1.50	DRLPRO	05	A	P	INSTALL ROTHEAD & TORQUE KELLY
	1:30 - 3:30	2.00	DRLPRO	02	F	P	DRILL CEMENT & F.E.

	3:30 - 4:00	0.50	DRLPRO	09	A	P	SURVEY @ 2777 DEV 1.00
	4:00 - 9:00	5.00	DRLPRO	02	B	P	DRILL F/ 2777 TO 3287 - 510' @ 102' FPH W/ 8.3 PPG
	9:00 - 9:30	0.50	DRLPRO	09	A	P	SURVEY @ 3203 DEV 1.44
	9:30 - 15:30	6.00	DRLPRO	02	B	P	DRILL F/ 3287 TO 3748 - 461' @ 76.8 FPH W/ 8.4 PPG
	15:30 - 16:00	0.50	DRLPRO	06	A	P	SER RIG
	16:00 - 0:00	8.00	DRLPRO	02	B	P	DRILL F/ 3748 TO 4180 - 432' @ 54.0 FPH W/ 8.8 PPG
10/15/2008	SUPERVISOR: SID ARMSTRONG						
	0:00 - 9:30	9.50	DRLPRO	02	B	P	DRILL F/ 4180 TO 4678 - 498' @ 52.4 FPH W/ 9.1 PPG
	9:30 - 10:00	0.50	DRLPRO	09	A	P	SURVEY @ 4603 DEV 2.92
	10:00 - 14:30	4.50	DRLPRO	02	B	P	DRILL F/ 4678 TO 4832 - 154' @ 34.2 FPH W/ 9.1 PPG
	14:30 - 15:00	0.50	DRLPRO	07	A	P	SER RIG
	15:00 - 0:00	9.00	DRLPRO	02	B	P	DRILL F/ 4832 TO 5083 - 251' - @ 27.8 FPH W/ 9.2 PPG
10/16/2008	SUPERVISOR: SID ARMSTRONG						
	0:00 - 4:00	4.00	DRLPRO	02	B	P	DRILL F/ 5083 TO 5202 - 119' @ 29.75 FPH W/ 9.1 PPG
	4:00 - 4:30	0.50	DRLPRO	09	A	P	SURVEY @ 5120 - 2.56 DEV
	4:30 - 13:30	9.00	DRLPRO	02	B	P	DRILL F/ 5202 TO 5635 - 433' @ 48.1 FPH W/ 9.2 PPG
	13:30 - 14:00	0.50	DRLPRO	09	A	P	SURVEY @ 5635 DEV 2.74
	14:00 - 15:00	1.00	DRLPRO	02	B	P	DRILL F/ 5635 TO 5666 - 31' @ 31.0 FPH W/ 9.3 PPG
	15:00 - 15:30	0.50	DRLPRO	06	A	P	SER RIG
	15:30 - 0:00	8.50	DRLPRO	02	B	P	DRILL F/ 5666 TO 5983 - 317' @ 37.2 FPH W/ 9.5 PPG
10/17/2008	SUPERVISOR: SID ARMSTRONG						

	0:00 - 12:30	12.50	DRLPRO	02	B	P	DRILL F/ 5983 TO 6410 - 427' @ 34.16 FPH W/ 9.6 PPG
	12:30 - 13:00	0.50	DRLPRO	06	A	P	SER RIG
	13:00 - 14:00	1.00	DRLPRO	07	B	P	WORK ON MUD PUMPS
	14:00 - 0:00	10.00	DRLPRO	02	B	P	DRILL F/ 6410 TO 6690 - 280' @ 28.0 FPH W/ 9.7 PPG
10/18/2008	SUPERVISOR: SID ARMSTRONG						
	0:00 - 4:00	4.00	DRLPRO	02	B	P	DRILL F/ 6690 TO 6786 - 96' - @ 24.0 FPH W/ 9.7 PPG
	4:00 - 4:30	0.50	DRLPRO	07	A	P	WORK ON PUMPS
	4:30 - 6:00	1.50	DRLPRO	03	A	P	WORK PIPE TIGHT HOLE PACKOFF GOT FREE RAISED MUD WT SLOUGHING SHALE
	6:00 - 9:00	3.00	DRLPRO	02	B	P	DRILL F/ 6786 TO 6840 - 54' - @ 18.0 FPH W/ 10.1 PPG
	9:00 - 9:30	0.50	DRLPRO	06	A	P	SER RIG
	9:30 - 14:30	5.00	DRLPRO	02	B	P	DRILL F/ 6840 TO 6933 - 93' @ 18.6 FPH W/ 10.2 PPG
	14:30 - 0:00	9.50	DRLPRO	05	A	P	T.F.N.B & MUD MOTOR
10/19/2008	SUPERVISOR: SID ARMSTRONG						
	0:00 - 0:30	0.50	DRLPRO	03	E	P	WASH 60' TO BTM HAD 5' FILL
	0:30 - 14:00	13.50	DRLPRO	02	B	P	DRILL F/ 6933 TO 7426 - 493' @ 36.5 FPH W/ 10.7 PPG
	14:00 - 14:30	0.50	DRLPRO	06	A	P	SER RIG
	14:30 - 0:00	9.50	DRLPRO	02	B	P	DRILL F/ 7426 TO 7675 - 249' @ 26.2 FPH W/ 10.9 PPG
10/20/2008	SUPERVISOR: SID ARMSTRONG						
	0:00 - 14:30	14.50	DRLPRO	02	B	P	DRILL F/ 7675 TO 7979 - 304' @ 20.9 FPH W/ 11.0 PPG
	14:30 - 15:00	0.50	DRLPRO	06	A	P	SER RIG
	15:00 - 0:00	9.00	DRLPRO	02	B	P	DRILL F/ 7979 TO 8052 - 73' - @ 8.1 FPH W/ 11.2 PPG

10/21/2008	SUPERVISOR: SID ARMSTRONG							
	0:00 - 2:30	2.50	DRLPRO	02	B	P	DRILL F/ 8052 TO 8076 - 24' @ 9.6 FPH W/ 11.2 PPG
	2:30 - 11:30	9.00	DRLPRO	05	A	P	T.F.N.B
	11:30 - 12:00	0.50	DRLPRO	03	A	P	HAD TIGHT SPOT @ 6460 WASH & REAM 30' & WELL SPEEPING MUD MIX LCM PILL & SPOT IN HOLE.
	12:00 - 13:00	1.00	DRLPRO	05	A	P	CONT. T.I.H
	13:00 - 13:30	0.50	DRLPRO	03	E	P	WASH 120' BTM (NO FILL) LOST 120 BBLS MUD
	13:30 - 0:00	10.50	DRLPRO	02	B	P	DRILL F/ 8076 TO 8520 - 444 @ 42.2 FPH W/ 11.5 PPG (WELL SEEPING MUD RAISE LCM TO 15% LOST TOTAL OF 250 BBLS)
10/22/2008	SUPERVISOR: SID ARMSTRONG						
	0:00 - 13:30	13.50	DRLPRO	02	B	P	DRILL F/ 8520 TO 8874 - 354' @ 26.2 FPH W/ 11.6 PPG
	13:30 - 14:00	0.50	DRLPRO	06	A	P	SER RIG
	14:00 - 20:30	6.50	DRLPRO	02	B	P	DRILL F/ 8874 TO 8968 - 94' @ 14.4 FPH W/ 11.6 PPG
	20:30 - 0:00	3.50	DRLPRO	05	A	P	T.F.N.B
10/23/2008	SUPERVISOR: SID ARMSTRONG						
	0:00 - 9:00	9.00	DRLPRO	05	A	P	CONT.T.I.H
	9:00 - 9:30	0.50	DRLPRO	03	A	P	WASH F/ 6440 TO 6500 (TIGHT SPOT @ 6440)
	9:30 - 10:30	1.00	DRLPRO	05	A	P	CONT. T.I.H
	10:30 - 11:00	0.50	DRLPRO	03	E	P	WASH 120' TO BTM (NO FILL)
	11:00 - 13:00	2.00	DRLPRO	02	B	P	DRILL F/ 8968 TO 9029 - 61' @ 30.5 FPH W/ 11.6 PPG
	13:00 - 13:30	0.50	DRLPRO	06	A	P	SER RIG
	13:30 - 0:00	10.50	DRLPRO	02	B	P	DRILL F/ 9029 TO 9205 - 176 @ 16.7 FPH W/ 11.8 PPG
10/24/2008	SUPERVISOR: SID ARMSTRONG						
	0:00 - 11:00	11.00	DRLPRO	02	B	P	DRILL F/ 9205 TO 9338 - 133' @ 12.0 FPH W/ 11.8 PPG

	0:00 - 11:00	11.00	DRLPRO	02	B	P	DRILL F/ 9205 TO 9338 - 133' @ 12.0 FPH W/ 11.8 PPG
	11:00 - 11:30	0.50	DRLPRO	06	A	P	SER RIG
	11:30 - 13:30	2.00	DRLPRO	02	B	P	DRILL F/ 9338 TO 9352 - 14' @ 7.0 FPH W/ 11.8 PPG
	13:30 - 22:00	8.50	DRLPRO	05	A	P	T.F.N.B & C/O MUD MOTOR & TRIP TO SHOE
	22:00 - 23:00	1.00	DRLPRO	06	D	P	CUT DRLG LINE
	23:00 - 0:00	1.00	DRLPRO	05	A	P	CONT. T.I.H
10/25/2008	SUPERVISOR: SID ARMSTRONG						
	0:00 - 2:00	2.00	DRLPRO	05	A	P	CONT. T.I.H
	2:00 - 11:30	9.50	DRLPRO	02	B	P	DRILL F/ 9352 TO 9647 - 295' @ 31.0 FPH W/ 11.8 PPG
	11:30 - 12:00	0.50	DRLPRO	06	A	P	SER RIG
	12:00 - 21:30	9.50	DRLPRO	02	B	P	DRILL F/ 9647 TO 9924 - 277' @ 29.1 W/ 12.0 PPG (WELL SEEPING FIULD RAISE LCM BACK TO 10% LOST 120 BBLS
	21:30 - 22:30	1.00	DRLPRO	04	C	P	CIRC BTM UP
	22:30 - 0:00	1.50	DRLPRO	05	E	P	SHORT TRIP 20 STANDS
10/26/2008	SUPERVISOR: SID ARMSTRONG						
	0:00 - 0:30	0.50	DRLPRO	05	E	P	CONT. SHORT TRIP
	0:30 - 3:00	2.50	DRLPRO	04	C	P	CIRC BTM UP & R/U LAYDOWN MACHINE
	3:00 - 12:30	9.50	DRLPRO	05	B	P	L.D.D.P & BHA
	12:30 - 18:30	6.00	DRLPRO	08	A	P	R/U BAKER & RUN TRIPLE COMBO TO @ 9,915 & R/D
	18:30 - 0:00	5.50	DRLPRO	11	B	P	R/U & RUN 4 1/2 PROD. STRING
10/27/2008	SUPERVISOR: SID ARMSTRONG						
	0:00 - 4:00	4.00	DRLPRO	11	B	P	RUN 4 1/2 PRODUCTION STRING & SET @ 9915 RUN 234 JTS PLUS MARKER

Wins No.: 94948							NBU 921-14B	API No.: 4304739246
4:00 - 5:30	1.50	DRLPRO	04	E	P	R/U CEMENT HEAD & CIRC BTM UP		
5:30 - 8:00	2.50	DRLPRO	15	A	P	HELD SAFETY MEETING & TEST LINES 4500 PSI & F/ CEMENT JOB PUMPED 20 BBLS MUD CLEAN & 20 SKS SCAV @ 10.0 PPG YIELD 15.07 F/ LEAD 421 SKS @ 11.5 PPG YIELD 2.82 & F/ TAIL 1300 SKS @ 14.3 YIELD 1.31 & DROP PLUG & DISPLACED W/ 153.4 BBLS WATER & BUMP W/ 500 OVER FINAL CIRC PSI OF 2900 & PLUG HELD & HAD NO CEMENT TO PIT. & FULL CIRC DURING JOB. NOTIFIY BLM ON CEMENT JOB.		
8:00 - 13:00	5.00	DRLPRO	13	A		LAND CASING W/ 105K STRING WT & L/D LANDING JT & GROUT IN LANDING PACKER & TESTED & NIPLLE DOWN & WASH & CLEAN OUT PIT & RELEASED RIG @ 13:00 HRS ON 10/27/2008.		

Wins No.: 94948	NBU 921-14B	API No.: 4304739246

EVENT INFORMATION:			
EVENT ACTIVITY: COMPLETION	START DATE: 11/10/2008	AFE NO.:	2007705
OBJECTIVE: DEVELOPMENT	END DATE: 11/14/2008		
OBJECTIVE 2: ORIGINAL	DATE WELL STARTED PROD.: 9/27/2008		
REASON: MV	Event End Status: COMPLETE		

RIG OPERATIONS:	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
MILES 2 / 2		11/10/2008					11/14/2008

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
11/10/2008	SUPERVISOR: JEFF SAMUELS						
	7:00 - 17:00	10.00	COMP	31	I	P	7:00 A.M. HSM MIRU, PREP & TALLY 285 JTS 2 3/8" L-80 8RD 4.7# TBG. P/U 3 7/8" MILL, BIT SUB & RIH P/U TBG OFF TRAILER. P/U TOTAL OF 265 JTS. EOT @ 8400'. X-O POOH STD BK TBG. NDBOPE, NU FRAC VLV'S. PREP TO PSI TST IN A.M.
11/11/2008	SUPERVISOR: JEFF SAMUELS						
	7:00 - 15:00	8.00	COMP	46	E	Z	7:00 A.M. HSM MIRU B&C QUICK TST. FILL CSG & PSI TST CSG & FRAC VLV'S TO 7500# (HELD). SWI. WAIT ON W.L. & FRAC CREWS
11/12/2008	SUPERVISOR: JEFF SAMUELS						
	12:00 - 13:30	1.50	COMP	34	H	P	RIG ON STAND BY, WAIT ON WEATHERFORD FRAC SVC. MIRU CUTTERS @ 12:00 NOON. P/U 3 3/8" EXP PERF GUNS LOADED W/ 23 GM CHARGES, 4 SPF, 90 DEG PHASING & RIH. SHOOT 24 HOLES F/ 9742' - 48', P/U SHOOT 8 HOLES F/ 9690' - 92', P/U SHOOT 8 HOLES F/ 9622' - 24'. POOH. PREP TO FRAC
11/13/2008	SUPERVISOR: JEFF SAMUELS						

	7:00 - 19:00	12.00	COMP	36	B	P	7:00 A.M. HSM MIRU WEATHERFORD FRAC SVC. PRIME PMP'S, PSI TST LINES TO 8500# (held). PREP TO FRAC ALL STAGES SHOT W/ 3 3/8" EXP PERF GUNS LOADED W/ 23 GM CHARGES, 3 & 4 SPF, 90 & 120 DEG PHASING. ALL CBP'S ARE 4 1/2" BAKER 8K CBP'S. ALL STAGES INCLUDE NALCO DVE-005 SCALE INHIB. 3 GPT IN PAD & 1/2 RAMP, 10 GPT IN FLUSH & PRE PAD. ALL CLEAN FLUID INCLUDE NALCO BIOCIDE @ .5 GPT STG 1: BRK DWN PERF'S @ 3617#, EST INJ RT @ 50.7 BPM @ 4650#, ISIP 2562#, FG .71, TREAT STG 1 W/ 98,524# SAND TAILED IN W/ 5000# TLC SAND W/ SLK WTR. TOT CL FL 2629 BBLS. ISIP 3066#, NPI 504#, FG .76 STG 2: P/U 3 3/8" PERF GUNS & 4 1/2" CBP & RIH. SET CBP @ 9550', P/U SHOOT 16 HOLES F/ 9518' - 22', P/U SHOOT 16 HOLES F/ 9468' - 72', P/U SHOOT 8 HOLES F/ 9448' - 50'. POOH. BRK DWN PERF'S @ 3476#, EST INJ RT @ 50.5 BPM @ 4760#, ISIP 2684#, FG .73, TREAT STG 2 W/ 76,793# SAND TAILED IN W/ 5000# TLC SAND W/ SLK WTR. TOT CL FL 2018 BBLS. ISIP 3019#, NPI 335#, FG .76 STG 3: P/U 3 3/8" PERF GUNS & 4 1/2" CBP & RIH. SET CBP @ 9406'. P/U SHOOT 8 HOLES F/ 9374' - 76', P/U SHOOT 24 HOLES F/ 9296' - 9302'. P/U SHOOT 8 HOLES F/ 9190' - 92'. POOH, BRK DWN PERF'S @ 3204#, EST INJ RT @ 50.6 BPM @ 4860#, ISIP 2716#, FG .74, TREAT STG 3 W/ 48,797# SAND TAILED IN W/ 5000# TLC SAND W/ SLK WTR. TOT CL FL 1270 BBLS. ISIP 2786#, NPI 70#, FG .74 STG 4: P/U 3 3/8" PERF GUNS & 4 1/2" CBP & RIH. SET CBP @ 9129', P/U SHOOT 12 HOLES F/ 9096' - 99', P/U SHOOT 6 HOLES F/ 9030' - 32', P/U SHOOT 12 HOLES F/ 8952' - 56', P/U SHOOT 12 HOLES F/ 8874' - 78'. POOH, BRK DWN PERF'S @ 2830#, EST INJ RT @ 55.4 BPM @ 4680#, ISIP 2604#, FG .73 TREAT STG 4 W/ 134,161# SAND TAILED IN W/ 5000# TLC SAND W/ SLK WTR. TOT CL FL 3599 BBLS. ISIP 2784#, NPI 180#, FG .75 STG 5: P/U 3 3/8" PERF GUNS & 4 1/2" CBP & RIH. SET CBP @ 8734', P/U SHOOT 16 HOLES F/ 8700' - 04', P/U SHOOT 8 HOLES F/ 8658' - 60', P/U SHOOT 16 HOLES F/ 8554' - 58', POOH. BRK DWN PERF'S @ 5329#, EST INJ RT @ 50.3 BPM @ 4930#, ISIP 2864#, FG .78, TREAT STG 5 W/ 62,769# SAND TAILED IN W/ 5000# TLC SAND W/ SLK WTR. TOT CL FL 1603 BBLS. ISIP 2695#, NPI -169#, FG .76 STG 6: P/U 3 3/8" PERF GUNS & 4 1/2" CBP & RIH. SET CBP @ 8474', P/U SHOOT 16 HOLES F/ 8440' - 44', P/U SHOOT 24 HOLES F/ 8380' - 86'. POOH, BRK DWN PERF'S @ 4066#, EST INJ RT @ 55.1 BPM @ 4800#, ISIP 2658#, FG .76, TREAT STG 6 W/ 90,537# SAND TAILED IN W/ 5000# TLC SAND W/ SLK WTR. TOT CL FL 2376 BBLS. ISIP 2734#, NPI 76#, FG .77 P/U 4 1/2" CBP & RIH. SET KILL PLUG @ 8330', POOH. RDMO CUTTERS. RDMO WEATHERFORD FRAC SVC. SWI. SDFN
11/15/2008	SUPERVISOR: DJ SMUIN						
	7:00 -			33	A		7 AM FLBK REPORT: CP 1700#, TP 1700#, 20/64" CK, 50 BWPH, - SAND, - GAS TTL BBLS RECOVERED: 965 BBLS LEFT TO RECOVER: 12530
11/16/2008	SUPERVISOR: DJ SMUIN						
	7:00 -			33	A		7 AM FLBK REPORT: CP 1700#, TP 2000#, 20/64" CK, 55 BWPH, 1 CUP SAND, MED GAS TTL BBLS RECOVERED: 2550 BBLS LEFT TO RECOVER: 10945
	11:45 -		PROD				WELL TURNED TO SALES @ 11455 HRON 11/16/08 - FTP 2075#, CP 1900#, CK 20/64", 1400 MCFD, 1200 BWPD
11/17/2008	SUPERVISOR: DJ SMUIN						

7:00	-	33	A	7 AM FLBK REPORT: CP 2500#, TP 1950#, 20/64" CK, 50 BWPH, 2 TBLS SAND, - GAS TTL BBLS RECOVERED: 3825 BBLS LEFT TO RECOVER: 9670

Form 3160-4
(August 2[illegible])

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.: UTU-01193

1a. Type of Well: ☐ Oil Well ☑ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☑ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
Other: _____

6. If Indian, Allottee or Tribe Name: TRIBAL SURFACE

7. Unit or CA Agreement Name and No.: UNIT #891008900A

2. Name of Operator: KERR McGEE OIL & GAS ONSHORE LP

8. Lease Name and Well No.: NBU 921-14B

3. Address: 1368 SOUTH 1200 EAST VERNAL, UTAH 84078

3a. Phone No. *(include area code)*: 435.781.7024

9. AFI Well No.: 4304739246

4. Location of Well *(Report location clearly and in accordance with Federal requirements)**

At surface: NW/NE 683'FNL, 1719'FEL

10. Field and Pool or Exploratory: NATURAL BUTTES

11. Sec., T., R., M., on Block and Survey or Area: SEC. 14, T9S, R21E

At top prod. interval reported below

At total depth

12. County or Parish: UINTAH, COUNTY

13. State: UT

14. Date Spudded: 09/25/2008

15. Date T.D. Reached: 10/27/2008

16. Date Completed: ☐ D & A ☑ Ready to Prod. 11/16/2008

17. Elevations (DF, RKB, RT, GL)*: 4794'GL

18. Total Depth: MD 9924' TVD

19. Plug Back T.D.: MD 9857' TVD

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CBL-CCL-GR, Comp Z, CN, Cal, HDI

22. Was well cored? ☑ No ☐ Yes (Submit analysis)
Was DST run? ☑ No ☐ Yes (Submit report)
Directional Survey? ☑ No ☐ Yes (Submit copy)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20"	14" STEEL	36.7#		40'		28 SX			
12 1/4"	9 5/8" J-55	36#		2760'		825 SX			
7 7/8"	4 1/2 I-80	11.6#		9924'		1721 SX			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2 3/8"	9426'							

25. Producing Intervals / 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MESAVERDE	9748'	8380'	9748'-8380'	0.36	242	OPEN
B) WSMVD						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
9748'-8380'	PMP 13,495 BBLS SLICK H2O & 511,581# 30/50 SD

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
11/16/08	11/27/08	24	→	20	1947	380			FLOWS FROM WELL

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
18/64	1750#	2365#	→	20	1947	380		PRODUCING GAS WELL

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
			→					

*(See instructions and spaces for additional data on page 2)

RECEIVED
DEC 18 2008
DIV. OF OIL, GAS & MINING

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status

29. Disposition of Gas *(Solid, used for fuel, vented, etc.)*

SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
GREEN RIVER	1716'				
MAHOGANY	2550'				
WASATCH	5082'	7883'			
MESAVERDE	7884'	9800'			

32. Additional remarks (include plugging procedure):

RECEIVED
DEC 18 2008
DIV. OF OIL, GAS & MINING

33. Indicate which items have been attached by placing a check in the appropriate boxes:

☐ Electrical/Mechanical Logs (1 full set req'd.) ☐ Geologic Report ☐ DST Report ☐ Directional Survey

☐ Sundry Notice for plugging and cement verification ☐ Core Analysis ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name *(please print)* SHEILA UPCHEGO Title REGULATORY ANALYST

Signature Sheila Upchego Date 12/10/2008

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

API Well No: 43047392460000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-01193

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-14B

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047392460000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6587 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0663 FNL 1719 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 14 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 5/20/2009	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SPUD REPORT Date of Spud:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ DRILLING REPORT Report Date:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	✓ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE OPERATOR REQUESTS AUTHORIZATION TO RECOMPLETE THE SUBJECT WELL LOCATION. THE OPERATOR PROPOSES TO RECOMPLETE THE WASATCH AND MESAVERDE FORMATIONS. THE OPERATOR WILL COMMINGLE THE NEWLY WASATCH AND MESAVERDE FORMATIONS, ALONG WITH THE EXISTING MESAVERDE FORMATIONS. PLEASE REFER TO THE ATTACHED RECOMPLETION PROCEDURE.

Accepted by the Utah Division of Oil, Gas and Mining

Date: May 18, 2009

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Sheila Upchego	435 781-7024	Regulatory Analyst
SIGNATURE		**DATE**
N/A		5/15/2009

RECEIVED May 15, 2009

Name: **NBU 921-14B**
Location: **NWNE 14 T9S R21E**
Uintah County, UT
Date: **5/8/09**

ELEVATIONS: 4794 GL 4811 KB

TOTAL DEPTH: 9924 **PBTD:** 9857
SURFACE CASING: 9 5/8", 36# J-55 ST&C @ 2702'
PRODUCTION CASING: 4 1/2", 11.6#, I-80 LT&C @ 9900'
Marker Joint **5029 - 5048**'

TUBULAR PROPERTIES:

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES (bbl/ft)	(gal/ft)
2 3/8" 4.7# J-55 tbg	7,700	8,100	1.901"	0.00387	0.1624
4 ½" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
2 3/8" by 4 ½" Annulus				0.0101	0.4227

TOPS:

1726' Green River
2040' Birds Nest
2550' Mahogany
5082' Wasatch
7884' Mesaverde

CBL indicates good cement below 500'

GENERAL:

- A minimum of **15** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Bakers Induction-Density-Neutron log dated 10/26/08
- **5** fracturing stages required for coverage.
- Procedure calls for 6 CBP's (**8000** psi).
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- Put scale inhibitor 3 gals/1000 gals (in pad and ½ the ramp) and 10 gals/1000 gals in all flushes except the final stage. Remember to pre-load the casing with scale inhibitor for the very first stage with 10 gpt.
- 30/50 mesh Ottawa sand, **Slickwater frac**.
- Maximum surface pressure **6200** psi.
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). DO NOT OVERDISPLACE. Stage acid and scale inhibitor if necessary to cover the next perforated interval.

- Service companies need to provide surface/production annulus pop-offs to be set for 1500 psi for each frac.
- Pump 20/40mesh **resin coated sand** last 5,000# of all frac stages
- Tubing Currently Landed @~9426'
- Originally completed on 11/13/08

Existing Perforations:

PERFORATIONS

Formation	Zone	Top	Btm	spf	Shots
MESA VERDE		8380	8386	4	24
MESA VERDE		8440	8444	4	16
MESA VERDE		8554	8558	4	16
MESA VERDE		8658	8660	4	8
MESA VERDE		8700	8704	4	16
MESA VERDE		8874	8878	3	12
MESA VERDE		8952	8956	3	12
MESA VERDE		9030	9032	3	6
MESA VERDE		9096	9099	4	12
MESA VERDE		9190	9192	4	8
MESA VERDE		9296	9302	4	24
MESA VERDE		9374	9376	4	8
MESA VERDE		9448	9450	4	8
MESA VERDE		9468	9472	4	16
MESA VERDE		9518	9522	4	16
MESA VERDE		9622	9624	4	8
MESA VERDE		9690	9692	4	8
MESA VERDE		9742	9748	4	24

PROCEDURE:

1. MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.

2. TOOH with 2-3/8", 4.7#, J-55 (or N-80) tubing (currently landed at ~9426'). Visually inspect for scale and consider replacing if needed.

3. If tbg looks ok consider running a gauge ring to 8248' (50' below proposed CBP). Otherwise P/U a mill and C/O to 8248' (50' below proposed CBP).

4. Set 8000 psi CBP at ~ 8198'. Pressure test BOP and casing to 6000 psi. .

5. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
MESAVERDE	8094	8100	3	18
MESAVERDE	8146	8150	3	12
MESAVERDE	8166	8168	4	8

6. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gal of 15% HCl and let soak. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~8048' and trickle 250gal 15%HCL w/ scale inhibitor in flush .

7. Set 8000 psi CBP at ~8038'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	7846	7848	3	6
MESAVERDE	7910	7920	3	30
MESAVERDE	8006	8008	3	6

8. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~7796' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

9. Set 8000 psi CBP at ~7614'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	7574	7584	4	40

10. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~7524' trickle 250gal 15%HCL w/ scale inhibitor in flush.

11. Set 8000 psi CBP at ~6310'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6096	6102	3	18
WASATCH	6218	6222	3	12
WASATCH	6278	6280	4	8

12. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 4 on attached listing. Under-displace to ~6046' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

13. Set 8000 psi CBP at ~5592'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	5450	5454	3	12
WASATCH	5524	5530	3	18
WASATCH	5558	5562	3	12

14. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 5 on attached listing. Under-displace to ~5400' and flush only with recycled water.

15. Set 8000 psi CBP at~5400'.

16. TIH with 3 7/8" mill, pump off sub, SN and tubing.

17. Mill ALL plugs and clean out to PBTD at 9857. Land tubing at ±**9418**' pump off bit and bit sub. This well WILL be commingled at this time.

18. Clean out well with foam and/or swabbing unit until steady flow has been established from recomplete.

19. RDMO

For design questions, please call

Conner Staley, Denver, CO
(720)-929-6419 (Office)

For field implementation questions, please call
Robert Miller, Vernal, UT
4350781 7041 (Office)

NOTES:
Tight Spacing on stage 1

Fracturing Schedules
Name NBU 921-14B
Slickwater Frac

Recompleté? Y
Pad? N

Swabbing Days	0	Enter Number of swabbing days here for recompletes
Production Log	0	Enter 1 if running a Production Log
DFIT	0	Enter Number of DFITs

Stage	Zone	Perfs Top, ft.	Perfs Bot., ft	SPF	Holes	Rate BPM	Fluid Type	Initial ppg	Final ppg	Fluid	Volume gals	Cum Vol gals	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Sand lbs	Cum. Sand lbs	Footage from CBP to Flush	Scale Inhib., gal.
1	MESAVERDE	8094	8100	3	18	Varied	Pump-in test			Slickwater		0	0	0						
	MESAVERDE	8146	8150	3	12	0	ISIP and 5 min ISIP													52
	MESAVERDE	8166	8168	4	8	50	Slickwater Pad			Slickwater	1,425	1,425	34	34	15.0%	0.0%	0	0		4
	MESAVERDE					50	Slickwater Ramp	0.25	1.25	Slickwater	2,692	4,117	64	98	28.3%	19.4%	2,019	2,019		4
	MESAVERDE					50	SW Sweep	0	0	Slickwater	0	4,117	0	98		0.0%	0	2,019		0
	MESAVERDE					50	Slickwater Ramp	1.25	1.5	Slickwater	2,692	6,808	64	162	28.3%	35.5%	3,701	5,720		4
	MESAVERDE					50	SW Sweep	0	0	Slickwater	0	6,808	0	162		0.0%	0	5,720		0
	MESAVERDE					50	Slickwater Ramp	0.5	1.5	Slickwater	0	6,808	0	162		0.0%	0	5,720		0
	MESAVERDE					50	Slickwater Ramp	1.5	2	Slickwater	2,692	9,500	64	226	28.3%	45.2%	4,710	10,430		0
	MESAVERDE					50	Flush (4-1/2)				5,254	14,754	125	351				10,430		52
	MESAVERDE						ISDP and 5 min ISDP					14,754								117
	MESAVERDE																			
	MESAVERDE																			
	MESAVERDE									Sand laden Volume		9,500								
	MESAVERDE																			
	MESAVERDE																			
	MESAVERDE																			
	MESAVERDE																			
	MESAVERDE																			
	MESAVERDE																			
	MESAVERDE																			
	MESAVERDE																			
	MESAVERDE																			
	MESAVERDE																			
	MESAVERDE																			
					Look							LOOK		LOOK		gal/md-ft	50,000	54,896	lbs sand/md-ft	
			# of Perfs/stage		38									Flush depth	8048	CBP depth		8,038	10	
						7.0	<< Above pump time (min)													
2	WASATCH	7846	7848	3	6	Varied	Pump-in test			Slickwater		0	0	0						
	MESAVERDE	7910	7920	3	30	0	ISIP and 5 min ISIP													
	MESAVERDE	8006	8008	3	6	50	Slickwater Pad			Slickwater	6,390	6,390	152	152	15.0%	0.0%	0	0		19
	MESAVERDE					50	Slickwater Ramp	0.25	1.5	Slickwater	21,300	27,690	507	659	50.0%	35.7%	18,638	18,638		32
	MESAVERDE					50	Slickwater Ramp	1.5	3	Slickwater	14,910	42,600	355	1,014	35.0%	64.3%	33,548	52,185		22
	MESAVERDE					50	Flush (4-1/2)			Slickwater	5,089	47,689	121	1,135		#VALUE!		52,185		8
	MESAVERDE						ISDP and 5 min ISDP			Slickwater						#VALUE!				0
	MESAVERDE															#VALUE!				0
	MESAVERDE															#VALUE!		52,185		0
	MESAVERDE											47,689	121	1,135						50
	MESAVERDE																			131
					Look											gal/md-ft	30,000	36,750	lbs sand/md-ft	
			# of Perfs/stage		42									Flush depth	7796	CBP depth		7,614	182	
						22.7	<< Above pump time (min)													
3	WASATCH	7574	7584	4	40	Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH					0	ISIP and 5 min ISIP													
	WASATCH					50	Slickwater Pad			Slickwater	4,770	4,770	114	114	15.0%	0.0%	0	0		14
	WASATCH					50	Slickwater Ramp	0.25	1.5	Slickwater	15,900	20,670	379	492	50.0%	35.7%	13,913	13,913		24
	WASATCH					50	Slickwater Ramp	1.5	3	Slickwater	11,130	31,800	265	757	35.0%	64.3%	25,043	38,955		17
	WASATCH					50	Flush (4-1/2)			Slickwater	4,912	36,712	117	874				38,955		7
	WASATCH						ISDP and 5 min ISDP			Slickwater										0
	WASATCH																			0
	WASATCH																	38,955		0
	WASATCH											36,712	117	874						41
	WASATCH																			103
					Look											gal/md-ft	30,000	36,750	lbs sand/md-ft	
			# of Perfs/stage		40									Flush depth	7524	CBP depth		6,310	1,214	
						17.5	<< Above pump time (min)													
4	WASATCH	6096	6102	3	18	Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH	6218	6222	3	12	0	ISIP and 5 min ISIP													
	WASATCH	6278	6280	4	8	50	Slickwater Pad			Slickwater	10,980	10,980	261	261	15.0%	0.0%	0	0		33
	WASATCH					50	Slickwater Ramp	0.25	1.5	Slickwater	36,600	47,580	871	1,133	50.0%	35.7%	32,025	32,025		55
	WASATCH					50	Slickwater Ramp	1.5	3	Slickwater	25,620	73,200	610	1,743	35.0%	64.3%	57,645	89,670		38
	WASATCH					50	Flush (4-1/2)			Slickwater	3,947	77,147	94	1,837				89,670		6
	WASATCH						ISDP and 5 min ISDP			Slickwater										0
	WASATCH																			0
	WASATCH																	89,670		0
	WASATCH											77,147	94	1,837						36
	WASATCH																			168
																gal/md-ft	30,000	36,750	lbs sand/md-ft	
			# of Perfs/stage		38									Flush depth	6046	CBP depth		5,592	454	
						36.7	<< Above pump time (min)													
5	WASATCH	5450	5454	3	12	Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH	5524	5530	3	18	0	ISIP and 5 min ISIP													
	WASATCH	5558	5562	3	12	50	Slickwater Pad			Slickwater	14,040	14,040	334	334	15.0%	0.0%	0	0		42
	WASATCH					50	Slickwater Ramp	0.25	1.5	Slickwater	46,800	60,840	1,114	1,449	50.0%	35.7%	40,950	40,950		70
	WASATCH					50	Slickwater Ramp	1.5	3	Slickwater	32,760	93,600	780	2,229	35.0%	64.3%	73,710	114,660		49
	WASATCH					50	Flush (4-1/2)			Slickwater	3,525	97,125	84	2,313				114,660		5
	WASATCH						ISDP and 5 min ISDP			Slickwater										0
	WASATCH																			0
	WASATCH																	114,660		0
	WASATCH											97,125	84	2,313						0
	WASATCH																			167
																gal/md-ft	30,000	36,750	lbs sand/md-ft	
			# of Perfs/stage		42									Flush depth	5400	CBP depth		5,400	0	LOOK
						46.3	<< Above pump time (min)													
	Totals				200						Total Fluid	273,427	gals	6,510	bbls		Total Sand	305,900		
												6,510	bbls							
						2.2								14.5	tanks				Total Scale Inhib. =	696

Name NBU 921-14B
Perforation and CBP Summary

Stage	Zones	Perforations		SPF	Holes		Fracture Coverage		
		Top, ft	Bottom, ft						
1	MESAVERDE	8094	8100	3	18		8076.5	to	8084.25
	MESAVERDE	8146	8150	3	12		8087	to	8103.25
	MESAVERDE	8166	8168	4	8		8141	to	8151.5
	MESAVERDE						8162.75	to	8171.25
					Look				
	# of Perfs/stage				38		CBP DEPTH	8,038	
2	WASATCH	7846	7848	3	6		7832.25	to	7850.75
	MESAVERDE	7910	7920	3	30		7892.75	to	7956.25
	MESAVERDE	8006	8008	3	6		7996	to	8011.25
					Look				
	# of Perfs/stage				42		CBP DEPTH	7,614	
3	WASATCH	7574	7584	4	40		7558.25	to	7599.25
					Look				
	# of Perfs/stage				40		CBP DEPTH	6,310	
4	WASATCH	6096	6102	3	18		6079.25	to	6093.75
	WASATCH	6218	6222	3	12		6095.5	to	6112.75
	WASATCH	6278	6280	4	8		6200.5	to	6231.25
	WASATCH						6277.25	to	6281.5
	# of Perfs/stage				38		CBP DEPTH	5,592	
5	WASATCH	5450	5454	3	12		5445.75	to	5458
	WASATCH	5524	5530	3	18		5459.25	to	5467
	WASATCH	5558	5562	3	12		5510.75	to	5538.5
	WASATCH						5543.75	to	5550
	WASATCH						5550.75	to	5564.5
	# of Perfs/stage				42		CBP DEPTH	5,400	
	Totals				200				

Fracturing Schedules
Name NBU 921-14B
Slickwater Frac

Recomplete?	Y
Pad?	N

Swabbing Days	0	Enter Number of swabbing days here for recompletes
Production Log	0	Enter 1 if running a Production Log
DFIT	0	Enter Number of DFITs

Stage	Zone	Perfs Top, ft.	Perfs Bot., ft	SPF	Holes	Rate BPM	Fluid Type	Initial ppg	Final ppg	Fluid	Volume gals	Cum Vol gals	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Sand lbs	Cum. Sand lbs	Footage from CBP to Flush	Scale Inhib., gal.	
1	MESAVERDE	8094	8100	3	18	Varied	Pump-in test			Slickwater		0	0	0							
	MESAVERDE	8146	8150	3	12	0	ISIP and 5 min ISIP													52	
	MESAVERDE	8166	8168	4	8	50	Slickwater Pad			Slickwater	1,425	1,425	34	34	15.0%	0.0%	0	0		4	Sand Concentration
	MESAVERDE					50	Slickwater Ramp	0.25	1.25	Slickwater	2,692	4,117	64	98	28.3%	19.4%	2,019	2,019		4	Set Max Sand Concentratio
	MESAVERDE					50	SW Sweep	0	0	Slickwater	0	4,117	0	98		0.0%	0	2,019		0	MV WASATCH
	MESAVERDE					50	Slickwater Ramp	1.25	1.5	Slickwater	2,692	6,808	64	162	28.3%	35.5%	3,701	5,720		4	2 3
	MESAVERDE					50	SW Sweep	0	0	Slickwater	0	6,808	0	162		0.0%	0	5,720		0	
	MESAVERDE					50	Slickwater Ramp	0.5	1.5	Slickwater	0	6,808	0	162		0.0%	0	5,720		0	Fluid Distribution
	MESAVERDE					50	Slickwater Ramp	1.5	2	Slickwater	2,692	9,500	64	226	28.3%	45.2%	4,710	10,430		0	MV Wasatch
	MESAVERDE					50	Flush (4-1/2)				5,254	14,754	125	351				10,430		52	15% 15%
	MESAVERDE						ISDP and 5 min ISDP					14,754								117	28% 50%
	MESAVERDE																				28% 35%
	MESAVERDE																				28%
	MESAVERDE									Sand laden Volume		9,500									
	MESAVERDE																				
	MESAVERDE																				
	MESAVERDE																				Gal/md-ft for all stages
	MESAVERDE																				MV Wasatch
	MESAVERDE																				50000 30000
	MESAVERDE																				
	MESAVERDE																				
	MESAVERDE																				
	MESAVERDE																				
	MESAVERDE																				
	MESAVERDE																				
					Look							LOOK		LOOK		gal/md-ft	50,000	54,896	lbs sand/md-ft		
			# of Perfs/stage		38									Flush depth	8048		CBP depth	8,038	10		1
						7.0	<< Above pump time (min)														
2	WASATCH	7846	7848	3	6	Varied	Pump-in test			Slickwater		0	0	0							
	MESAVERDE	7910	7920	3	30	0	ISIP and 5 min ISIP														
	MESAVERDE	8006	8008	3	6	50	Slickwater Pad			Slickwater	6,390	6,390	152	152	15.0%	0.0%	0	0		19	Sand Concentration
	MESAVERDE					50	Slickwater Ramp	0.25	1.5	Slickwater	21,300	27,690	507	659	50.0%	35.7%	18,638	18,638		32	Set Max Sand Concentratio
	MESAVERDE					50	Slickwater Ramp	1.5	3	Slickwater	14,910	42,600	355	1,014	35.0%	64.3%	33,548	52,185		22	MV WASATCH
	MESAVERDE					50	Flush (4-1/2)			Slickwater	5,089	47,689	121	1,135		#VALUE!		52,185		8	2 3
	MESAVERDE						ISDP and 5 min ISDP			Slickwater						#VALUE!				0	
	MESAVERDE															#VALUE!				0	Fluid Distribution
	MESAVERDE															#VALUE!		52,185		0	MV Wasatch
	MESAVERDE											47,689	121	1,135						50	15% 15%
	MESAVERDE																			131	28% 50%
					Look											gal/md-ft	30,000	36,750	lbs sand/md-ft		
			# of Perfs/stage		42									Flush depth	7796		CBP depth	7,614	182		2
						22.7	<< Above pump time (min)														
3	WASATCH	7574	7584	4	40	Varied	Pump-in test			Slickwater		0	0	0							
	WASATCH					0	ISIP and 5 min ISIP														
	WASATCH					50	Slickwater Pad			Slickwater	4,770	4,770	114	114	15.0%	0.0%	0	0		14	Sand Concentration
	WASATCH					50	Slickwater Ramp	0.25	1.5	Slickwater	15,900	20,670	379	492	50.0%	35.7%	13,913	13,913		24	Set Max Sand Concentratio
	WASATCH					50	Slickwater Ramp	1.5	3	Slickwater	11,130	31,800	265	757	35.0%	64.3%	25,043	38,955		17	MV WASATCH
	WASATCH					50	Flush (4-1/2)			Slickwater	4,912	36,712	117	874				38,955		7	2 3
	WASATCH						ISDP and 5 min ISDP			Slickwater										0	
	WASATCH																			0	Fluid Distribution
	WASATCH																	38,955		0	MV Wasatch
	WASATCH											36,712	117	874						41	15% 15%
	WASATCH																			103	28% 50%
					Look											gal/md-ft	30,000	36,750	lbs sand/md-ft		
			# of Perfs/stage		40									Flush depth	7524		CBP depth	6,310	1,214		3
						17.5	<< Above pump time (min)														
4	WASATCH	6095	6102	3	18	Varied	Pump-in test			Slickwater		0	0	0							
	WASATCH	6218	6222	3	12	0	ISIP and 5 min ISIP														
	WASATCH	6278	6280	4	8	50	Slickwater Pad			Slickwater	10,980	10,980	261	261	15.0%	0.0%	0	0		33	Sand Concentration
	WASATCH					50	Slickwater Ramp	0.25	1.5	Slickwater	36,600	47,580	871	1,133	50.0%	35.7%	32,025	32,025		55	Set Max Sand Concentratio
	WASATCH					50	Slickwater Ramp	1.5	3	Slickwater	25,620	73,200	610	1,743	35.0%	64.3%	57,645	89,670		38	MV WASATCH
	WASATCH					50	Flush (4-1/2)			Slickwater	3,947	77,147	94	1,837				89,670		6	2 3
	WASATCH						ISDP and 5 min ISDP			Slickwater										0	
	WASATCH																			0	Fluid Distribution
	WASATCH																	89,670		0	MV Wasatch
	WASATCH											77,147	94	1,837						36	15% 15%
	WASATCH																			168	28% 50%
																gal/md-ft	30,000	36,750	lbs sand/md-ft		
			# of Perfs/stage		38									Flush depth	6046		CBP depth	5,592	454		4
						38.7	<< Above pump time (min)														
5	WASATCH	5450	5454	3	12	Varied	Pump-in test			Slickwater		0	0	0							
	WASATCH	5524	5530	3	18	0	ISIP and 5 min ISIP														
	WASATCH	5558	5562	3	12	50	Slickwater Pad			Slickwater	14,040	14,040	334	334	15.0%	0.0%	0	0		42	Sand Concentration
	WASATCH					50	Slickwater Ramp	0.25	1.5	Slickwater	46,800	60,840	1,114	1,449	50.0%	35.7%	40,950	40,950		70	Set Max Sand Concentratio
	WASATCH					50	Slickwater Ramp	1.5	3	Slickwater	32,760	93,600	780	2,229	35.0%	64.3%	73,710	114,660		49	MV WASATCH
	WASATCH					50	Flush (4-1/2)			Slickwater	3,525	97,125	84	2,313				114,660		5	2 3
	WASATCH						ISDP and 5 min ISDP			Slickwater										0	
	WASATCH																			0	Fluid Distribution
	WASATCH																	114,660		0	MV Wasatch
	WASATCH											97,125	84	2,313						0	15% 15%
	WASATCH																			167	28% 50%
																gal/md-ft	30,000	36,750	lbs sand/md-ft		
			# of Perfs/stage		42									Flush depth	5400		CBP depth	5,400	0	LOOK	5
						48.3	<< Above pump time (min)														
	Totals				200						Total Fluid	273,427 gals		6,510 bbls			Total Sand	305,900			
												6,510 bbls									
						2.2								14.5 tanks						Total Scale Inhib. =	686

Estimated Total Completion Cost	$202,776

API Well No: 43047392460000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-01193

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-14B

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047392460000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6007 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0663 FNL 1719 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 14 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
✓ SUBSEQUENT REPORT Date of Work Completion: 8/2/2009	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	✓ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE OPERATOR HAS PERFORMED THE RECOMPLETION ON THE SUBJECT WELL LOCATION. THE OPERATOR HAS RECOMPLETED THE NEWLY WASATCH AND MESAVERDE FORMATIONS. THE OPERATOR HAS COMMINGLED THE NEWLY WASATCH AND MESAVERDE FORMATIONS ALONG WITH THE EXISTING MESAVERDE FORMATION. THE OPERATOR HAS PLACED THE SUBJECT WELL LOCATION ON PRODUCTION ON 08/01/2009 AT 8:30 AM. PLEASE REFER TO THE ATTACHED RECOMPLETION CHRONOLOGICAL WELL HISTORY.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
August 11, 2009

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Sheila Wopsock	435 781-7024	Regulatory Analyst
SIGNATURE N/A		**DATE** 8/10/2009

RECEIVED August 10, 2009

ROCKIES

Operation Summary Report

Well: NBU 921-14B	Spud Conductor: 9/25/2008	Spud Date: 9/27/2008
Project: UTAH	Site: UINTAH	Rig Name No: LEED 698/698
Event: RECOMPLETION	Start Date: 7/27/2009	End Date: 7/31/2009
Active Datum: RKB @4,809.00ft (above Mean Sea Level)	UWI: NBU 921-14B	

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
7/27/2009	7:00 - 7:30	0.50	COMP	48		P		JSA- DRIVING AND ROAD SAFETY.
	7:30 - 15:00	7.50	COMP	31		P		RDSU. ROAD RIG AND EQUIP FROM NBU 921-23C TO LOCATION. FTP 120, SICP 400. RECOVER PLUNGER (PACEMAKER- BALL STILL IN TBG) AS RUSU. PMP 10 BBLS DOWN TBG. ND WH. NU BOP. OPEN CSG TO SALES. RU FLOOR AND TBG EQUIP. UNLAND TBG FROM 9426'. LUB OUT AND LD 4" 10K HANGER. POOH W/ 297 JTS 2-3/8" L-80 TBG. CONTROL WELL W/ 50 BBLS. LD SN, BALL AND BUMPER. ND BOP. NU FRAC VALVES. SDFN
7/28/2009	7:00 - 7:30	0.50	COMP	48		P		JSA- EWL AND P-TESTING.
	7:30 - 15:00	7.50	COMP	37	B	P		SICP 650. PMP 20 BBLS DOWN CSG. RU CUTTERS. RIH W/ 3.625" GR/JB TO 8254. RIH AND SET HALCO 10K CBP AT 8198'. FILL CSG W/ 120 BBLS. P-TEST CSG AND FRAC VALVES TO 6200 PSI. HELD GOOD. RIH W/ 3-3/8" EXP GUNS (23 GRAM, .36" POE, 3 SPF ON 120* PHASING, 4 SPF ON 90* PHASING). PERF 8166-68' (4 SPF), 8146-50' (3 SPF), AND 8094-8100' (3 SPF). 12' NET AND 38 HOLES. SDFN W/ CUTTERS RU.
7/29/2009	6:30 - 7:00	0.50	COMP	48		P		JSA- FRAC / PERF

ROCKIES

Operation Summary Report

Well: NBU 921-14B	Spud Conductor: 9/25/2008	Spud Date: 9/27/2008
Project: UTAH	Site: UINTAH	Rig Name No: LEED 698/698
Event: RECOMPLETION	Start Date: 7/27/2009	End Date: 7/31/2009
Active Datum: RKB @4,809.00ft (above Mean Sea Level)	UWI: NBU 921-14B	

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	7:00 - 7:00	0.00	COMP	36	B	P		MIRU. FRAC TECH. PRES TEST SURFACE LINES TO 7500 PSI. GOOD. HSM. PERFS 8166-8168', 8146-8150', 8094-8100'. STAGE #1- OPEN WELL- SICP 1300 PSI. BRK 5228 PSI AT 7.4 BPM, ISIP 2988, FG .81. PMP 100 BBLS SLK WTR, 51.3 BPM @ 4992 PSI = 89% PERFS OPEN (34/38). MP 5958, MR 53.4, AP 4460, AR 50.9, FG .75, ISIP 2475, NPI -513. BBLS PMP 1537 SLK WTR, 17,537# 30/50 AND 5,000# 40/20 RESIN (TOT PROP 22,537#) ---------- STAGE #2- PU 4-1/2" HALCO 8K CBP AND 3-3/8" EXP GUNS, 23 GM, .36 HOLES ON 120* PHASING. SET CBP AT 8035'. PULL UP AND PERF 8006-08 (3 SPF), 7910-20 (3 SPF), 7846-48 (3 SPF). 42 HOLES TOTAL. OPEN WELL- SICP 100 PSI. BRK 2287 PSI AT 6.7 BPM, ISIP 1627, FG .65. PMP 100 BBLS SLK WTR, 50.7 BPM @ 3825 PSI = 71% PERFS OPEN (30/42). MP 6041, MR 51.7, AP 3664, AR 50.8, FG .72, ISIP 2163, NPI 536. BBLS PMP 1257 SLK WTR, 47,527# 30/50 AND 5,000# 40/20 RESIN (TOT PROP 52,527#) ---------- STAGE #3- PU 4-1/2" HALCO 8K CBP AND 3-3/8" EXP GUNS, 23 GM, .36 HOLES ON 90* PHASING SET CBP AT 7614'. PULL UP AND PERF 7574-84' (4 SPF), 40 HOLES TOTAL. OPEN WELL- SICP 82 PSI. BRK 2705 PSI AT 6.4 BPM, ISIP 1173, FG .60. PMP 100 BBLS SLK WTR, 51.5 BPM @ 4435 PSI = 72% PERFS OPEN (29/40). MP 4580, MR 55.3, AP 4039, AR 52.5, FG .79, ISIP 2611, NPI 1438. BBLS PMP 894 SLK WTR, 34,258# 30/50 AND 5,000# 40/20 RESIN (TOT PROP 39,258#) ---------- STAGE #4- PU 4-1/2" HALCO 8K CBP AND 3-3/8" EXP GUNS, 23 GM, .36 HOLES ON 90* AND 120* PHASING. SET CBP AT '6314. PULL UP AND PERF 6278-80 (4 SPF), 6218-22' (3 SPF), 6096-102' (3 SPF) 38 HOLES TOTAL. OPEN WELL- SICP 82 PSI. BRK 1667 PSI AT 7.3 BPM, ISIP 1173, FG .60. PMP 100 BBLS SLK WTR, 45 BPM @ 3000 PSI = 76% PERFS OPEN. (29/38) MP 3548, MR 55.3, AP 2806, AR 52.6, FG .67, ISIP 1367, NPI 106. BBLS PMP 1853 SLK WTR, 85,195# 30/50 AND 5,000# 40/20 RESIN (TOT PROP 90,195#) ---------- STAGE #5- PU 4-1/2" HALCO 8K CBP AND 3-3/8" EXP GUNS, 23 GM, .36 HOLES ON 120*

ROCKIES

Operation Summary Report

Well: NBU 921-14B	Spud Conductor: 9/25/2008	Spud Date: 9/27/2008
Project: UTAH	Site: UINTAH	Rig Name No: LEED 698/698
Event: RECOMPLETION	Start Date: 7/27/2009	End Date: 7/31/2009
Active Datum: RKB @4,809.00ft (above Mean Sea Level)	UWI: NBU 921-14B	

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
								PHASING SET CBP AT 5595'. PULL UP AND PERF 5558-62 (3 SPF), 5524-30 (3 SPF), AND 5450-54 (3 SPF) 42 HOLES TOTAL. OPEN WELL- SICP 95 PSI. BRK 1461 PSI AT 5.7 BPM, ISIP 737, FG .58. PMP 100 BBLS SLK WTR, 52.5 BPM @ 2392 PSI = 90% PERFS OPEN (38/42). MP 2853, MR 56.0, AP 2421, AR 51.9, FG .72, ISIP 1515, NPI 778. BBLS PMP 2388 SLK WTR, 120,304# 30/50 AND 5,700# 40/20 RESIN (TOT PROP 126.004#) RIH W/ 4-1/2" HALCO 8K CBP AND SET KILL PLUG AT 5400' ---------- ---------- RDMO FRAC TECH AND CUTTERS. ND FRAC VALVES. NU BOP. RU FLOOR AND TBG EQUIP. MU 3-7/8" MILL, POBS, AND 1.87" XN-NIPPLE AND RIH ON 104 JTS 2-3/8" L-80 TBG. EOT AT 3282. SDFN TTL PMPED- 7143 BBLS SLK WTR, 307,984# PROP.
7/30/2009	7:00 - 7:30	0.50	COMP	48		P		JSA- SLIPS, TRIPS, AND FALLS.

ROCKIES

Operation Summary Report

Well: NBU 921-14B	Spud Conductor: 9/25/2008	Spud Date: 9/27/2008
Project: UTAH	Site: UINTAH	Rig Name No: LEED 698/698
Event: RECOMPLETION	Start Date: 7/27/2009	End Date: 7/31/2009
Active Datum: RKB @4,809.00ft (above Mean Sea Level)	UWI: NBU 921-14B	

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	7:30 - 7:30	0.00	COMP	31		P		SITP 0, SICP 0. CONT RIH W/ MILL AND POBS ON 2-3/8" L-80 TBG. TAG SAND AT 5363'. LD NEEDED TBG AND RBIH. RU PWR SWIVEL AND EST CIRC. C/O 37' SAND TO CBP #1 CBP #1AT 5400'. D/O IN 14 MIN, 275 PSI INCREASE. RIH AND TAG SAND AT 5555', C/O 40' SAND TO CBP CBP #2 AT 5595'. D/O IN 33 MIN, 50 PSI INCREASE. RIH AND TAG SAND AT 6269'. C/O 45' SAND TO CBP CBP #3 AT 6314'. D/O IN 21 MIN, 0 PSI INCREASE. RIH AND TAG SAND AT 7572'. C/O 42' SAND TO CBP. CBP #4 AT 7614'. D/O IN 19 MIN, 25 PSI INCREASE. RIH AND TAG SAND AT 8005'. C/O 30' SAND TO CBP. CBP #5 AT 8035'. D/O IN 17 MIN, 25 PSI INCREASE. RIH AND TAG SAND AT 8178'. C/O 20 SAND TO CBP. CBP #6 AT 8198'. D/O IN 19 MIN, FLOW SLOWED AT FIRST THEN 150 PSI INCREASE. CONT RIH. TAGGED AT 9672' W/ 15' UP #306 AND GOT HUNG UP. WORK TBG. RU PWR SWIVEL. WORK TORQUE AS PMPING. CAME FREE. C/O FROM 9672' TO 9813' W/ 310 JTS IN. (65' RATHOLE) TAGGED OLD POBS. CIRC CLEAN. RD PWR SWIVEL. POOH AS LD 14-JTS 2-3/8" L-80 TBG. PU 4" 10K HANGER. LUB IN AND LAND 297-JTS 2-3/8 L-80 TBG W/ EOT AT 9422.80'. RD FLOOR. ND BOP. DROP BALL. NU WH. PMP 4 BBLS AND RELEASE MILL AT 1300 PSI. SHUT WELL IN FOR 30 MIN AS HOOK UP FLOW LINES. OPEN UP AT 19:00 WITH SICP 625, LIGHT TRICKLE UP TBG. PU LOCATION. TURN WELL OVER TO FLOW TESTER AT 19:30 W/ SICP 710 AND LIGHT FLOW UP TBG. SDFN. TBG DETAIL KB 17.00 TTL PMP 7143 BBLS 4" 10K FMC HANGER .83 TTL RCVR 1836 BBLS 297-JTS 2-3/8" L-80 TBG 9402.77 LTR 5307 BBLS 1/87" XN (POBS) 2.20 TBG IN 34-JTS (WORK) EOT 9422.80 TBG OUT 34-JTS (WORK)
7/31/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 1500#, TP 275#, 20/64" CK, 30 BWPH, MEDIUM SAND, - GAS TTL BBLS RECOVERED: 2221 BBLS LEFT TO RECOVER: 4922
8/1/2009	7:00 -		PROD	33	A			7 AM FLBK REPORT: CP 2100#, TP 1025#, 20/64" CK, 25 BWPH, MEDIUM SAND, LIGHT GAS TTL BBLS RECOVERED: 2846 BBLS LEFT TO RECOVER: 4297

ROCKIES

Operation Summary Report

Well: NBU 921-14B	Spud Conductor: 9/25/2008	Spud Date: 9/27/2008
Project: UTAH	Site: UINTAH	Rig Name No: LEED 698/698
Event: RECOMPLETION	Start Date: 7/27/2009	End Date: 7/31/2009
Active Datum: RKB @4,809.00ft (above Mean Sea Level)	UWI: NBU 921-14B	

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	8:30 -		PROD	50				WELL TURNED TO SALE @ 0830 HR ON 8/1/2009 - FTP 1000#, CP 2100#, 750 MCFD, 25 BWPD, 20/64 CK
8/2/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 1900#, TP 1100#, 20/64" CK, 25 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 3566 BBLS LEFT TO RECOVER: 3577
8/3/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 1800#, TP 1000#, 20/64" CK, 18 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 4075 BBLS LEFT TO RECOVER: 3068

API Well No: 43047392460000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-01193

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-14B

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047392460000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6587 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0663 FNL 1719 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 14 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 5/20/2009	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SPUD REPORT Date of Spud:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ DRILLING REPORT Report Date:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	✓ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE OPERATOR REQUESTS AUTHORIZATION TO RECOMPLETE THE SUBJECT WELL LOCATION. THE OPERATOR PROPOSES TO RECOMPLETE THE WASATCH AND MESAVERDE FORMATIONS. THE OPERATOR WILL COMMINGLE THE NEWLY WASATCH AND MESAVERDE FORMATIONS, ALONG WITH THE EXISTING MESAVERDE FORMATIONS. PLEASE REFER TO THE ATTACHED RECOMPLETION PROCEDURE.

Accepted by the Utah Division of Oil, Gas and Mining

Date: May 18, 2009

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Sheila Upchego	435 781-7024	Regulatory Analyst
SIGNATURE		**DATE**
N/A		5/15/2009

RECEIVED May 15, 2009

Name: **NBU 921-14B**
Location: **NWNE 14 T9S R21E**
Uintah County, UT
Date: **5/8/09**

ELEVATIONS: 4794 GL 4811 KB

TOTAL DEPTH: 9924 **PBTD:** 9857
SURFACE CASING: 9 5/8", 36# J-55 ST&C @ 2702'
PRODUCTION CASING: 4 1/2", 11.6#, I-80 LT&C @ 9900'
Marker Joint **5029 - 5048**'

TUBULAR PROPERTIES:

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES (bbl/ft)	(gal/ft)
2 3/8" 4.7# J-55 tbg	7,700	8,100	1.901"	0.00387	0.1624
4 ½" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
2 3/8" by 4 ½" Annulus				0.0101	0.4227

TOPS:

1726' Green River
2040' Birds Nest
2550' Mahogany
5082' Wasatch
7884' Mesaverde

CBL indicates good cement below 500'

GENERAL:

- A minimum of **15** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Bakers Induction-Density-Neutron log dated 10/26/08
- **5** fracturing stages required for coverage.
- Procedure calls for 6 CBP's (**8000** psi).
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- Put scale inhibitor 3 gals/1000 gals (in pad and ½ the ramp) and 10 gals/1000 gals in all flushes except the final stage. Remember to pre-load the casing with scale inhibitor for the very first stage with 10 gpt.
- 30/50 mesh Ottawa sand, **Slickwater frac**.
- Maximum surface pressure **6200** psi.
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). DO NOT OVERDISPLACE. Stage acid and scale inhibitor if necessary to cover the next perforated interval.

- Service companies need to provide surface/production annulus pop-offs to be set for 1500 psi for each frac.
- Pump 20/40mesh **resin coated sand** last 5,000# of all frac stages
- Tubing Currently Landed @~9426'
- Originally completed on 11/13/08

Existing Perforations:

PERFORATIONS

Formation	Zone	Top	Btm	spf	Shots
MESA VERDE		8380	8386	4	24
MESA VERDE		8440	8444	4	16
MESA VERDE		8554	8558	4	16
MESA VERDE		8658	8660	4	8
MESA VERDE		8700	8704	4	16
MESA VERDE		8874	8878	3	12
MESA VERDE		8952	8956	3	12
MESA VERDE		9030	9032	3	6
MESA VERDE		9096	9099	4	12
MESA VERDE		9190	9192	4	8
MESA VERDE		9296	9302	4	24
MESA VERDE		9374	9376	4	8
MESA VERDE		9448	9450	4	8
MESA VERDE		9468	9472	4	16
MESA VERDE		9518	9522	4	16
MESA VERDE		9622	9624	4	8
MESA VERDE		9690	9692	4	8
MESA VERDE		9742	9748	4	24

PROCEDURE:

1. MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.

2. TOOH with 2-3/8", 4.7#, J-55 (or N-80) tubing (currently landed at ~9426'). Visually inspect for scale and consider replacing if needed.

3. If tbg looks ok consider running a gauge ring to 8248' (50' below proposed CBP). Otherwise P/U a mill and C/O to 8248' (50' below proposed CBP).

4. Set 8000 psi CBP at ~ 8198'. Pressure test BOP and casing to 6000 psi. .

5. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
MESAVERDE	8094	8100	3	18
MESAVERDE	8146	8150	3	12
MESAVERDE	8166	8168	4	8

6. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gal of 15% HCl and let soak. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~8048' and trickle 250gal 15%HCL w/ scale inhibitor in flush .

7. Set 8000 psi CBP at ~8038'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	7846	7848	3	6
MESAVERDE	7910	7920	3	30
MESAVERDE	8006	8008	3	6

8. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~7796' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

9. Set 8000 psi CBP at ~7614'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	7574	7584	4	40

10. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~7524' trickle 250gal 15%HCL w/ scale inhibitor in flush.

11. Set 8000 psi CBP at ~6310'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6096	6102	3	18
WASATCH	6218	6222	3	12
WASATCH	6278	6280	4	8

12. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 4 on attached listing. Under-displace to ~6046' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

13. Set 8000 psi CBP at ~5592'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	5450	5454	3	12
WASATCH	5524	5530	3	18
WASATCH	5558	5562	3	12

14. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 5 on attached listing. Under-displace to ~5400' and flush only with recycled water.

15. Set 8000 psi CBP at~5400'.

16. TIH with 3 7/8" mill, pump off sub, SN and tubing.

17. Mill ALL plugs and clean out to PBTD at 9857. Land tubing at ±**9418**' pump off bit and bit sub. This well WILL be commingled at this time.

18. Clean out well with foam and/or swabbing unit until steady flow has been established from recomplete.

19. RDMO

For design questions, please call

Conner Staley, Denver, CO
(720)-929-6419 (Office)

For field implementation questions, please call
Robert Miller, Vernal, UT
4350781 7041 (Office)

NOTES:
Tight Spacing on stage 1

Fracturing Schedules
Name NBU 921-14B
Slickwater Frac

Recomplete? Y
Pad? N

Swabbing Days	0	Enter Number of swabbing days here for recompletes
Production Log	0	Enter 1 if running a Production Log
DFIT	0	Enter Number of DFITs

		Perfs				Rate	Fluid	Initial	Final	Fluid	Volume	Cum Vol	Volume	Cum Vol	Fluid % of	Sand	Sand	Cum. Sand	Footage from	Scale Inhib.,
Stage	Zone	Top, ft.	Bot., ft	SPF	Holes	BPM	Type	ppg	ppg		gals	gals	BBLs	BBLs	frac	% of frac	lbs	lbs	CBP to Flush	gal.
1	MESAVERDE	8094	8100	3	18	Varied	Pump-in test			Slickwater		0	0	0						
	MESAVERDE	8146	8150	3	12	0	ISIP and 5 min ISIP													52
	MESAVERDE	8166	8168	4	8	50	Slickwater Pad			Slickwater	1,425	1,425	34	34	15.0%	0.0%	0	0		4
	MESAVERDE					50	Slickwater Ramp	0.25	1.25	Slickwater	2,692	4,117	64	98	28.3%	19.4%	2,019	2,019		4
	MESAVERDE					50	SW Sweep	0	0	Slickwater	0	4,117	0	98		0.0%	0	2,019		0
	MESAVERDE					50	Slickwater Ramp	1.25	1.5	Slickwater	2,692	6,808	64	162	28.3%	35.5%	3,701	5,720		4
	MESAVERDE					50	SW Sweep	0	0	Slickwater	0	6,808	0	162		0.0%	0	5,720		0
	MESAVERDE					50	Slickwater Ramp	0.5	1.5	Slickwater	0	6,808	0	162		0.0%	0	5,720		0
	MESAVERDE					50	Slickwater Ramp	1.5	2	Slickwater	2,692	9,500	64	226	28.3%	45.2%	4,710	10,430		0
	MESAVERDE					50	Flush (4-1/2)				5,254	14,754	125	351				10,430		52
	MESAVERDE						ISDP and 5 min ISDP					14,754								117
	MESAVERDE																			
	MESAVERDE																			
	MESAVERDE									Sand laden Volume		9,500								
	MESAVERDE																			
	MESAVERDE																			
	MESAVERDE																			
	MESAVERDE																			
	MESAVERDE																			
	MESAVERDE																			
	MESAVERDE																			
	MESAVERDE																			
	MESAVERDE																			
	MESAVERDE																			
	MESAVERDE																			
					Look							LOOK		LOOK		gal/md-ft	50,000	54,896	lbs sand/md-ft	
			# of Perfs/stage		38									Flush depth	8048		CBP depth	8,038	10	
						7.0	<< Above pump time (min)													
2	WASATCH	7846	7848	3	6	Varied	Pump-in test			Slickwater		0	0	0						
	MESAVERDE	7910	7920	3	30	0	ISIP and 5 min ISIP													
	MESAVERDE	8006	8008	3	6	50	Slickwater Pad			Slickwater	6,390	6,390	152	152	15.0%	0.0%	0	0		19
	MESAVERDE					50	Slickwater Ramp	0.25	1.5	Slickwater	21,300	27,690	507	659	50.0%	35.7%	18,638	18,638		32
	MESAVERDE					50	Slickwater Ramp	1.5	3	Slickwater	14,910	42,600	355	1,014	35.0%	64.3%	33,548	52,185		22
	MESAVERDE					50	Flush (4-1/2)			Slickwater	5,089	47,689	121	1,135		#VALUE!		52,185		8
	MESAVERDE						ISDP and 5 min ISDP			Slickwater						#VALUE!				0
	MESAVERDE															#VALUE!				0
	MESAVERDE															#VALUE!		52,185		0
	MESAVERDE											47,689	121	1,135						50
	MESAVERDE																			131
					Look											gal/md-ft	30,000	36,750	lbs sand/md-ft	
			# of Perfs/stage		42									Flush depth	7796		CBP depth	7,614	182	
						22.7	<< Above pump time (min)													
3	WASATCH	7574	7584	4	40	Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH					0	ISIP and 5 min ISIP													
	WASATCH					50	Slickwater Pad			Slickwater	4,770	4,770	114	114	15.0%	0.0%	0	0		14
	WASATCH					50	Slickwater Ramp	0.25	1.5	Slickwater	15,900	20,670	379	492	50.0%	35.7%	13,913	13,913		24
	WASATCH					50	Slickwater Ramp	1.5	3	Slickwater	11,130	31,800	265	757	35.0%	64.3%	25,043	38,955		17
	WASATCH					50	Flush (4-1/2)			Slickwater	4,912	36,712	117	874				38,955		7
	WASATCH						ISDP and 5 min ISDP			Slickwater										0
	WASATCH																			0
	WASATCH																	38,955		0
	WASATCH											36,712	117	874						41
	WASATCH																			103
					Look											gal/md-ft	30,000	36,750	lbs sand/md-ft	
			# of Perfs/stage		40									Flush depth	7524		CBP depth	6,310	1,214	
						17.5	<< Above pump time (min)													
4	WASATCH	6096	6102	3	18	Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH	6218	6222	3	12	0	ISIP and 5 min ISIP													
	WASATCH	6278	6280	4	8	50	Slickwater Pad			Slickwater	10,980	10,980	261	261	15.0%	0.0%	0	0		33
	WASATCH					50	Slickwater Ramp	0.25	1.5	Slickwater	36,600	47,580	871	1,133	50.0%	35.7%	32,025	32,025		55
	WASATCH					50	Slickwater Ramp	1.5	3	Slickwater	25,620	73,200	610	1,743	35.0%	64.3%	57,645	89,670		38
	WASATCH					50	Flush (4-1/2)			Slickwater	3,947	77,147	94	1,837				89,670		6
	WASATCH						ISDP and 5 min ISDP			Slickwater										0
	WASATCH																			0
	WASATCH																	89,670		0
	WASATCH											77,147	94	1,837						36
	WASATCH																			168
																gal/md-ft	30,000	36,750	lbs sand/md-ft	
			# of Perfs/stage		38									Flush depth	6046		CBP depth	5,592	454	
						36.7	<< Above pump time (min)													
5	WASATCH	5450	5454	3	12	Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH	5524	5530	3	18	0	ISIP and 5 min ISIP													
	WASATCH	5558	5562	3	12	50	Slickwater Pad			Slickwater	14,040	14,040	334	334	15.0%	0.0%	0	0		42
	WASATCH					50	Slickwater Ramp	0.25	1.5	Slickwater	46,800	60,840	1,114	1,449	50.0%	35.7%	40,950	40,950		70
	WASATCH					50	Slickwater Ramp	1.5	3	Slickwater	32,760	93,600	780	2,229	35.0%	64.3%	73,710	114,660		49
	WASATCH					50	Flush (4-1/2)			Slickwater	3,525	97,125	84	2,313				114,660		5
	WASATCH						ISDP and 5 min ISDP			Slickwater										0
	WASATCH																			0
	WASATCH																	114,660		0
	WASATCH											97,125	84	2,313						0
	WASATCH																			167
																gal/md-ft	30,000	36,750	lbs sand/md-ft	
			# of Perfs/stage		42									Flush depth	5400		CBP depth	5,400	0	LOOK
						46.3	<< Above pump time (min)													
	Totals				200						Total Fluid	273,427	gals	6,510	bbls		Total Sand	305,900		
												6,510	bbls							
						2.2								14.5	tanks				Total Scale Inhib. =	686

Name NBU 921-14B
Perforation and CBP Summary

Stage	Zones	Perforations		SPF	Holes		Fracture Coverage		
		Top, ft	Bottom, ft						
1	MESAVERDE	8094	8100	3	18		8076.5	to	8084.25
	MESAVERDE	8146	8150	3	12		8087	to	8103.25
	MESAVERDE	8166	8168	4	8		8141	to	8151.5
	MESAVERDE						8162.75	to	8171.25
					Look				
	# of Perfs/stage				38		CBP DEPTH	8,038	
2	WASATCH	7846	7848	3	6		7832.25	to	7850.75
	MESAVERDE	7910	7920	3	30		7892.75	to	7956.25
	MESAVERDE	8006	8008	3	6		7996	to	8011.25
					Look				
	# of Perfs/stage				42		CBP DEPTH	7,614	
3	WASATCH	7574	7584	4	40		7558.25	to	7599.25
					Look				
	# of Perfs/stage				40		CBP DEPTH	6,310	
4	WASATCH	6096	6102	3	18		6079.25	to	6093.75
	WASATCH	6218	6222	3	12		6095.5	to	6112.75
	WASATCH	6278	6280	4	8		6200.5	to	6231.25
	WASATCH						6277.25	to	6281.5
	# of Perfs/stage				38		CBP DEPTH	5,592	
5	WASATCH	5450	5454	3	12		5445.75	to	5458
	WASATCH	5524	5530	3	18		5459.25	to	5467
	WASATCH	5558	5562	3	12		5510.75	to	5538.5
	WASATCH						5543.75	to	5550
	WASATCH						5550.75	to	5564.5
	# of Perfs/stage				42		CBP DEPTH	5,400	
	Totals				200				

Fracturing Schedules
Name NBU 921-14B
Slickwater Frac

Recomplete?	Y
Pad?	N

Swabbing Days	0	Enter Number of swabbing days here for recompletes
Production Log	0	Enter 1 if running a Production Log
DFIT	0	Enter Number of DFITs

Stage	Zone	Perfs Top, ft.	Perfs Bot., ft	SPF	Holes	Rate BPM	Fluid Type	Initial ppg	Final ppg	Fluid	Volume gals	Cum Vol gals	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Sand lbs	Cum. Sand lbs	Footage from CBP to Flush	Scale Inhib., gal.	
1	MESAVERDE	8094	8100	3	18	Varied	Pump-in test			Slickwater		0	0	0							
	MESAVERDE	8146	8150	3	12	0	ISIP and 5 min ISIP													52	
	MESAVERDE	8166	8168	4	8	50	Slickwater Pad			Slickwater	1,425	1,425	34	34	15.0%	0.0%	0	0		4	Sand Concentration
	MESAVERDE					50	Slickwater Ramp	0.25	1.25	Slickwater	2,692	4,117	64	98	28.3%	19.4%	2,019	2,019		4	Set Max Sand Concentratio
	MESAVERDE					50	SW Sweep	0	0	Slickwater	0	4,117	0	98		0.0%	0	2,019		0	MV WASATCH
	MESAVERDE					50	Slickwater Ramp	1.25	1.5	Slickwater	2,692	6,808	64	162	28.3%	35.5%	3,701	5,720		4	2 3
	MESAVERDE					50	SW Sweep	0	0	Slickwater	0	6,808	0	162		0.0%	0	5,720		0	
	MESAVERDE					50	Slickwater Ramp	0.5	1.5	Slickwater	0	6,808	0	162		0.0%	0	5,720		0	Fluid Distribution
	MESAVERDE					50	Slickwater Ramp	1.5	2	Slickwater	2,692	9,500	64	226	28.3%	45.2%	4,710	10,430		0	MV Wasatch
	MESAVERDE					50	Flush (4-1/2)				5,254	14,754	125	351				10,430		52	15% 15%
	MESAVERDE						ISDP and 5 min ISDP					14,754								117	28% 50%
	MESAVERDE																				28% 35%
	MESAVERDE																				28%
	MESAVERDE									Sand laden Volume		9,500									
	MESAVERDE																				
	MESAVERDE																				
	MESAVERDE																				Gal/md-ft for all stages
	MESAVERDE																				MV Wasatch
	MESAVERDE																				50000 30000
	MESAVERDE																				
	MESAVERDE																				
	MESAVERDE																				
	MESAVERDE																				
	MESAVERDE																				
	MESAVERDE																				
					Look							LOOK		LOOK		gal/md-ft	50,000	54,896	lbs sand/md-ft		
			# of Perfs/stage		38									Flush depth	8048		CBP depth	8,038	10		1
						7.0	<< Above pump time (min)														
2	WASATCH	7846	7848	3	6	Varied	Pump-in test			Slickwater		0	0	0							
	MESAVERDE	7910	7920	3	30	0	ISIP and 5 min ISIP														
	MESAVERDE	8006	8008	3	6	50	Slickwater Pad			Slickwater	6,390	6,390	152	152	15.0%	0.0%	0	0		19	Sand Concentration
	MESAVERDE					50	Slickwater Ramp	0.25	1.5	Slickwater	21,300	27,690	507	659	50.0%	35.7%	18,638	18,638		32	Set Max Sand Concentratio
	MESAVERDE					50	Slickwater Ramp	1.5	3	Slickwater	14,910	42,600	355	1,014	35.0%	64.3%	33,548	52,185		22	MV WASATCH
	MESAVERDE					50	Flush (4-1/2)			Slickwater	5,089	47,689	121	1,135		#VALUE!		52,185		8	2 3
	MESAVERDE						ISDP and 5 min ISDP			Slickwater						#VALUE!				0	
	MESAVERDE															#VALUE!				0	Fluid Distribution
	MESAVERDE															#VALUE!		52,185		0	MV Wasatch
	MESAVERDE											47,689	121	1,135						50	15% 15%
	MESAVERDE																			131	28% 50%
					Look											gal/md-ft	30,000	36,750	lbs sand/md-ft		
			# of Perfs/stage		42									Flush depth	7796		CBP depth	7,614	182		2
						22.7	<< Above pump time (min)														
3	WASATCH	7574	7584	4	40	Varied	Pump-in test			Slickwater		0	0	0							
	WASATCH					0	ISIP and 5 min ISIP														
	WASATCH					50	Slickwater Pad			Slickwater	4,770	4,770	114	114	15.0%	0.0%	0	0		14	Sand Concentration
	WASATCH					50	Slickwater Ramp	0.25	1.5	Slickwater	15,900	20,670	379	492	50.0%	35.7%	13,913	13,913		24	Set Max Sand Concentratio
	WASATCH					50	Slickwater Ramp	1.5	3	Slickwater	11,130	31,800	265	757	35.0%	64.3%	25,043	38,955		17	MV WASATCH
	WASATCH					50	Flush (4-1/2)			Slickwater	4,912	36,712	117	874				38,955		7	2 3
	WASATCH						ISDP and 5 min ISDP			Slickwater										0	
	WASATCH																			0	Fluid Distribution
	WASATCH																	38,955		0	MV Wasatch
	WASATCH											36,712	117	874						41	15% 15%
	WASATCH																			103	28% 50%
					Look											gal/md-ft	30,000	36,750	lbs sand/md-ft		
			# of Perfs/stage		40									Flush depth	7524		CBP depth	6,310	1,214		3
						17.5	<< Above pump time (min)														
4	WASATCH	6095	6102	3	18	Varied	Pump-in test			Slickwater		0	0	0							
	WASATCH	6218	6222	3	12	0	ISIP and 5 min ISIP														
	WASATCH	6278	6280	4	8	50	Slickwater Pad			Slickwater	10,980	10,980	261	261	15.0%	0.0%	0	0		33	Sand Concentration
	WASATCH					50	Slickwater Ramp	0.25	1.5	Slickwater	36,600	47,580	871	1,133	50.0%	35.7%	32,025	32,025		55	Set Max Sand Concentratio
	WASATCH					50	Slickwater Ramp	1.5	3	Slickwater	25,620	73,200	610	1,743	35.0%	64.3%	57,645	89,670		38	MV WASATCH
	WASATCH					50	Flush (4-1/2)			Slickwater	3,947	77,147	94	1,837				89,670		6	2 3
	WASATCH						ISDP and 5 min ISDP			Slickwater										0	
	WASATCH																			0	Fluid Distribution
	WASATCH																	89,670		0	MV Wasatch
	WASATCH											77,147	94	1,837						36	15% 15%
	WASATCH																			168	28% 50%
																gal/md-ft	30,000	36,750	lbs sand/md-ft		
			# of Perfs/stage		38									Flush depth	6046		CBP depth	5,592	454		4
						38.7	<< Above pump time (min)														
5	WASATCH	5450	5454	3	12	Varied	Pump-in test			Slickwater		0	0	0							
	WASATCH	5524	5530	3	18	0	ISIP and 5 min ISIP														
	WASATCH	5558	5562	3	12	50	Slickwater Pad			Slickwater	14,040	14,040	334	334	15.0%	0.0%	0	0		42	Sand Concentration
	WASATCH					50	Slickwater Ramp	0.25	1.5	Slickwater	46,800	60,840	1,114	1,449	50.0%	35.7%	40,950	40,950		70	Set Max Sand Concentratio
	WASATCH					50	Slickwater Ramp	1.5	3	Slickwater	32,760	93,600	780	2,229	35.0%	64.3%	73,710	114,660		49	MV WASATCH
	WASATCH					50	Flush (4-1/2)			Slickwater	3,525	97,125	84	2,313				114,660		5	2 3
	WASATCH						ISDP and 5 min ISDP			Slickwater										0	
	WASATCH																			0	Fluid Distribution
	WASATCH																	114,660		0	MV Wasatch
	WASATCH											97,125	84	2,313						0	15% 15%
	WASATCH																			167	28% 50%
																gal/md-ft	30,000	36,750	lbs sand/md-ft		
			# of Perfs/stage		42									Flush depth	5400		CBP depth	5,400	0	LOOK	5
						48.3	<< Above pump time (min)														
	Totals				200						Total Fluid	273,427 gals		6,510 bbls			Total Sand	305,900			
												6,510 bbls									
						2.2								14.5 tanks						Total Scale Inhib. =	686

Estimated Total Completion Cost	$202,776